

## APPENDIX A: DNA SEQUENCES

&gt;RXA00007-upstream

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&gt;RXA00007

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>RXA00166-upstream  
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>RXA00166  
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>RXA00166-downstream  
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>RXA00198  
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>RXA00198-downstream  
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>RXA00216-upstream  
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>RXA00216  
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>RXA00219  
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>RXA00223  
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>RXA00229  
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>RXA00241  
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>RXA00262

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>RXA00266-upstream

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>RXA00266

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>RXA00278-upstream

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>RXA00278

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>RXA00295-upstream  
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>RXA00295  
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>RXA00306  
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>RXA00323  
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>RXA00335-upstream

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>RXA00335

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>RXA00351

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>RXA00382

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>RXA00383

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>RXA00391  
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>RXA00393  
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>RXA00393-downstream

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>RXA00402

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>RXA00402-downstream

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>RXA00403-upstream

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>RXA00403

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>RXA00405-upstream

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>RXA00405

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>RXA00420

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>RXA00426-upstream  
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>RXA00426  
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>RXA00435  
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>RXA00437  
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>RXA00438-upstream  
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>RXA00438  
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>RXA00439-downstream

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>RXA00440-upstream

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>RXA00440

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>RXA00441

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>RXA00442-upstream

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>RXA00442

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>RXA00446

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>RXA00448

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>RXA00448-downstream

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>RXA00450-upstream

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>RXA00450

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>RXA00452-upstream

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>RXA00452

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>RXA00461-upstream

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>RXA00461

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>RXA00461-downstream

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>RXA00465-upstream

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>RXA00465

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>RXA00465-downstream

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>RXA00487-upstream

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>RXA00487

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>RXA00972  
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>RXA01009

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>RXA01024-upstream

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>RXA01024

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>RXA01073-upstream

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>RXA01073

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>RXA01095  
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>RXA01098-upstream  
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>RXA01098  
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>RXA01100-upstream  
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>RXA01105-upstream  
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>RXA01105  
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>RXA01105-downstream

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>RXA01106-upstream

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>RXA01106

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>RXA01132

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>RXA01145

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>RXA01162-upstream

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>RXA01162

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>RXA01208-upstream

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>RXA01208

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>RXA01209-upstream

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>RXA01209

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>RXA01215-upstream

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>RXA01215

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>RXA01239-upstream

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>RXA01239

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>RXA01239-downstream  
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>RXA01253-upstream  
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>RXA01253  
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>RXA01321-upstream

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>RXA01321

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>RXA01352-upstream

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>RXA01352

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>RXA01360

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>RXA01361

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>RXA01371-upstream

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>RXA01371

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>RXA01381

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>RXA01393-upstream

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>RXA01393

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>RXA01489  
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>RXA01491-upstream

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>RXA01491

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>RXA01508-upstream

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>RXA01508

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>RXA01512



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>RXA01528

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>RXA01561  
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>RXA01679-downstream

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>RXA01690

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>RXA01690-downstream

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>RXA01692-upstream

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>RXA01692

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>RXA01698  
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>RXA01699  
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>RXA01712-upstream  
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>RXA01712

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>RXA01719  
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>RXA01720  
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>RXA01746-upstream

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>RXA01746

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>RXA01746-downstream

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>RXA01747-upstream

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>RXA01747

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>RXA01747-downstream

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>RXA01757-upstream

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>RXA01757

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>RXA01807-downstream  
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>RXA01821  
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>RXA01835-upstream  
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>RXA01835  
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>RXA01878-upstream  
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>RXA01878  
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>RXA01892-upstream

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>RXA01892

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>RXA01894-upstream

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>RXA01894

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>RXA01894-downstream

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>RXA01920

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>RXA01928-upstream

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>RXA01928

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>RXA01929-upstream

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>RXA01929

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>RXA01940

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>RXA01970

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>RXA02024  
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>RXA02027

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>RXA02031

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>RXA02072-upstream

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>RXA02072

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>RXA02085  
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>RXA02111-upstream

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>RXA02111

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>RXA02111-downstream

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>RXA02112-upstream

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>RXA02112

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>RXA02112-downstream

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>RXA02134-upstream

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>RXA02134

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>RXA02135  
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>RXA02136-upstream  
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>RXA02136  
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>RXA02139  
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>RXA02153  
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>RXA02154  
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>RXA02157  
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>RXA02158  
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>RXA02159  
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>RXA02160  
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## &gt;RXA02161-upstream

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## &gt;RXA02161

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## &gt;RXA02161-downstream

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## &gt;RXA02162-upstream

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## &gt;RXA02162

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## &gt;RXA02162-downstream

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## &gt;RXA02176-upstream

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## &gt;RXA02176

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>RXA02240-upstream  
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>RXA02240  
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>RXA02246-upstream  
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>RXA02246  
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>RXA02247  
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>RXA02248-upstream

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>RXA02248

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>RXA02249-upstream

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>RXA02249

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>RXA02249-downstream

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>RXA02250-upstream

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>RXA02250

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>RXA02262  
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>RXA02263-upstream  
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>RXA02263  
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>RXA02281  
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>RXA02284  
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>RXA02299

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>RXA02299-downstream

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>RXA02311-upstream

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>RXA02311

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>RXA02315-upstream

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>RXA02315

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>RXA02315-downstream

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>RXA02318-upstream

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>RXA02318

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>RXA02318-downstream  
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>RXA02319-upstream  
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>RXA02319  
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>RXA02345  
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>RXA02345-downstream  
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>RXA02346-upstream  
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>RXA02346  
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CGC

>RXA02350-upstream  
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>RXA02350  
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>RXA02350-downstream  
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>RXA02373-upstream  
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>RXA02373  
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>RXA02375-upstream  
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>RXA02375  
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>RXA02378-upstream  
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>RXA02378  
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>RXA02378-upstream  
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>RXA02378  
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>RXA02380-upstream  
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>RXA02380  
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>RXA02382  
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>RXA02400-upstream  
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>RXA02400  
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>RXA02400-downstream  
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>RXA02405-upstream  
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>RXA02405  
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>RXA02432-upstream



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>RXA02432

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>RXA02432-downstream

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>RXA02458-upstream

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>RXA02458

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>RXA02458-downstream

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>RXA02469-upstream

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>RXA02469

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>RXA02469-downstream  
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>RXA02479-upstream  
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>RXA02857-upstream

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>RXN01712

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>RXN01810-upstream

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>RXN01892

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## &gt;RXN01940

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## &gt;RXN02008

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>RXN02918-upstream  
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 TGATTCTATTATTGCCAAATCAGAAAGCAGGAGAGACCCG

>RXN02918  
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GCACTCGTTTTATACCTGGCACAAGCTTCCGGCGATCCCATTGAGGTTACACCCCTGTTT  
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 CACGCAGCAGCAGATCGCTTCGATGAGGATGACCTGTCTGAGCTTGCCAACTTGAGTGAA  
 GAGCTGCGCGACAGCTGGAC

>RXN02918-downstream  
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>RXN02965-upstream  
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>RXN02965  
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 GCCGTCTGGGCACTCATGGACTACGGCTTCCGCGCTGTCTTCTCTCACGATTCGCCGAC  
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>RXN02965-downstream  
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>RXN02970-upstream  
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>RXN02970  
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>RXN02970-downstream  
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>RXN03003-upstream

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>RXN03003

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GAAAACAACGTGATCCTCGCAGCTGATGAATGCTACTTGGGTCTTGGCTGGGACGATGAA  
AACCCACCGATCTCAATTTTGGATCCACGTGTCTGCGATGGCGACCACCAACTTGATC  
GCCATTCACCTCGCTG

>RXN03004-upstream

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CGTGGCCCAACCCCTGAACGCTGAACGCTACACTGGTTGAC

>RXN03004

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>RXN03007-upstream

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>RXN03007

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GCTGCCAAGGCGTTCTCGCGGCGGCTCGTCCGTTCCCGATTACTGGCGCAGGTTTGCTA  
GATTCGCTGGTACTGGTGGCGACGGTGCCAACACCATCAACATCACCACCGGCGCATCC  
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AAGTCCGGC

>RXN03058-upstream

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GCCCATTTGGAATCACAAACCCGCATATCGGCCATGGCTG

>RXN03058

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CATCACATGAACGCGGAAGAAGGACTTAACAAAGCAGTCCGAATCCTCAATCCTGGCGGC  
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CTACAAGCTTTTCTCTCCCGACCAATCAGCCTCATCAATAGGGAACAACAAATCTACCCC  
TTCCCTACCAAGAACCCTCAGAGAGTCTCCACGAAATACGACAACCTACCAAGCAGCTC  
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CCT

>RXN03058-downstream  
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>RXN03063-upstream  
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ACCTAGACAACAGTTTGTATCTCACCTCACAGGAGGAACC

>RXN03063  
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CCTTATGAACTTACGTGGCCATGGCGGAGAGACTCAACGCCCTTGACTCCAGGCGATCAC  
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AAGACCCGCGCG

>RXN03074-upstream  
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>RXN03074  
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>RXN03074-downstream  
TAATTTGTTTTGACGACGCAGTA

>RXN03105-upstream  
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>RXN03105  
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GCAGTCTCTGAATTTGGTCGGAAAACCCACGAACCTTCCCCGGGGTCAACCCAGAGCCC  
AACCGTTTTAGCGTCCACTATGACACCTACACTGCAGACAAATCTCCAATTATCGACGCG  
GTTGACAATGTCATTGTGCTCACCGGAGGATCCGGACACGCCTTCAAGCTCTCTCCAGCT  
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>RXN03105-downstream  
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&gt;RXN03114

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 TTGCTTGTGACGCCTCCTTCCACATTCATATCAATGGCGTGTCTACTGGGCAGTCGGTT  
 GCGCCGGATGATGTAGTTGAGGTGGTGCGTGGTTTTGGCTGATGCTTCGGAGTTGTCCGTG  
 GAAAGTGTTGCTGAGTTGTGTACTCCCGTGGCACCGGTTTCATTATCTGAGGCACAGGGG  
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 CCAGGGGGGCGGGTGGAGGCTCGTTTAGCGCGTTTTATTGCGGTGATTGAGGCGGAGACC  
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&gt;RXN03114-downstream

TAACTCGCCATTGGTGACGTCT

&gt;RXN03137-upstream

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&gt;RXN03137

TTGGAGCTCAACAAGGCAGCGTACATGTTTGAGTACAGCTTCGATGACATCACCGTGTCC  
 GGCTACGATCCACACCCATTGATCCGCGGCAAGGTCGCCGTA

&gt;RXN03137-downstream

TGATCGGTGCGATTTGGGCACAA

&gt;RXN03171-upstream

ATACTTTGTTGGACTGGAAAAAGTGGCCGTTTGGTTCCCTCCAAGCCCAAATTCGCCCCGCG  
 CGGTCTTCTTCTGGGCGGCAATGATTTAACATGTGAAGCT

&gt;RXN03171

ATGGACATCACCATCGTCAACCACCCACTCGTTGCTAGCCGCCTAACCCGTGTTGCGCGAC  
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 TACGAAGCATCCCGAGATCTGGAAGTCGAACACTTCGACACCAAAACCCCGTTGCCATG  
 GCTGAAGGTACTCGCCTGAAGCAGCCACCCATCATCGTTCCCATCATCCGTGACAGGTCTC  
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&gt;RXN03176

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 CTCACCTCATGTCCACCGAG

&gt;RXS00116 - upstream

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>RXS00116

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>RXS00116 - downstream  
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>RXS00147 - upstream  
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>RXS00147

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GTCGTTGAAGGTATTGCGCTGAAGTCCGGACGCGCATACTCCGTTTCAGTACCACCCAGAGGCCGCTGCC  
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GGCGCA

>RXS00147 - downstream  
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>RXS00349 - upstream  
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>RXS00349

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>RXS00349 - downstream  
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>RXS00389 - upstream  
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>RXS00389  
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>RXS00389 - downstream  
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>RXS00391 - upstream  
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>RXS00391

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>RXS00391 - downstream  
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>RXS00393 - upstream  
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>RXS00393  
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>RXS00393 - downstream  
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>RXS00405 - upstream  
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>RXS00405  
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>RXS00419 - upstream  
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>RXS00419  
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>RXS00419 - downstream  
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>RXS00446 - upstream  
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>RXS00446  
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>RXS00446 - downstream  
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>RXS00618 - upstream  
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>RXS00618  
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>RXS00618 - downstream

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>RXS00838 - upstream

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>RXS00838

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>RXS00838 - downstream

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>RXS00870 - upstream

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>RXS00870

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>RXS00870 - downstream

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>RXS00905 - upstream

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>RXS00905

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>RXS00905 - downstream  
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>RXS00906 - upstream  
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>RXS00906  
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>RXS00906 - downstream  
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>RXS00907 - upstream  
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>RXS00907  
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>RXS00907 - downstream  
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>RXS00998 - upstream  
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>RXS00998  
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>RXS00998 - downstream  
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>RXS01105 - upstream  
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>RXS01105  
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>RXS01105 downstream  
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>RXS01130 - upstream  
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>RXS01130  
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>RXS01130 - downstream  
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>RXS01145 - upstream  
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>RXS01145  
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>RXS01145 - downstream  
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>RXS01183 - upstream  
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>RXS01183  
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>RXS01260  
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>RXS01261 - downstream  
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>RXS01807 - upstream  
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>RXS02550 - downstream

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>RXS02556 - upstream

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>RXS02556

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>RXS02556 - downstream

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>RXS02560 - upstream

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>RXS02560

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>RXS02560 - downstream  
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>RXS02565 - upstream  
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>RXS02565  
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>RXS02565 - downstream  
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>RXS02908 - upstream  
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>RXS02908  
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RXS02908 - downstream  
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>RXS02937 - upstream

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>RXS02937

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>RXS02937 - downstream

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>RXS02970 - upstream

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>RXS02970

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>RXS02970 - downstream

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>RXS03003 - upstream

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>RXS03003

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>RXS03026 - upstream

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>RXS03026

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>RXS03026 - downstream

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>RXS03074 - upstream

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>RXS03074

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>RXS03074 - downstream

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>RXS03112 - upstream

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>RXS03112

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>RXS03158 - upstream

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>RXS03158

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>RXS03158 - downstream  
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>RXS03159 - upstream  
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>RXS03159  
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>RXS03159 - downstream  
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>RXS03183  
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>RXS03183 - downstream  
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>RXS03205  
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>RXS03205 - downstream:  
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>RXS03223

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>RXS03223 - downstream  
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>RXC00128 - upstream  
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>RXC00128  
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>RXC00128 - downstream  
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>RXC00152 - upstream

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>RXC00152

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>RXC00152 - downstream

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>RXC00164 - upstream

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>RXC00164

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>RXC00164 - downstream  
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>RXC00416  
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>RXC00540  
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>RXC00560  
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>RXC00560 - downstream  
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>RXC00657 - upstream  
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>RXC00657 - downstream  
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>RXC00733 - upstream  
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>RXC00733 - downstream  
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>RXC00861  
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>RXC00866 - upstream  
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>RXC00866  
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>RXC00874 - upstream  
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>RXC00874  
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>RXC00874 - downstream  
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>RXC00930 - upstream  
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>RXC00930  
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>RXC00930 - downstream  
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>RXC00988 - upstream  
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>RXC00988  
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>RXC00988 - downstream  
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>RXC01021 - upstream  
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>RXC01021  
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>RXC01088 - upstream

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>RXC01088

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>RXC01088 - downstream  
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>RXC01096 - upstream

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>RXC01096

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>RXC01158 - upstream

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>RXC01158

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>RXC01158 - downstream  
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>RXC01191 - upstream  
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>RXC01191  
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>RXC01191 - downstream  
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>RXC01207 - upstream  
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>RXC01207  
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>RXC01207 - downstream  
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>RXC01434 - upstream  
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>RXC01434

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>RXC01434 - downstream  
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>RXC01518 - upstream  
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>RXC01518  
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>RXC01600  
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>RXC01622  
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>RXC01622 - downstream  
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>RXC01656 - upstream  
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>RXC01656  
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>RXC01709 - upstream  
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>RXC01709  
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>RXC01709 - downstream  
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>RXC01711 - upstream  
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>RXC01711  
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>RXC01711 - downstream  
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>RXC01715 - upstream  
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>RXC01715  
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>RXC01715 - downstream  
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>RXC01796 - upstream  
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>RXC01796  
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>RXC01796 - downstream  
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>RXC01942 - upstream  
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>RXC01942  
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>RXC01942 - downstream  
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>RXC01946  
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>RXC01946 - downstream  
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>RXC02080 - upstream  
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TTGCTTATTGTGCAGGAATTCGGAGGCGGAC

>RXC02080  
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TTGACTGCCACCATCGCCAACACCATCGGCATCGTTCTGGAAGTATTTCCGGGTGTGGTTGCTTATAGA  
CGTGAACCTACGCGCCATGTAAAAACCATCAGATTTCTGCTGCCAGCATCAATCCTCGGAGGGATCACC  
GGCGCCTCGCTCTTGCTGCATTTCTCCGCAGATGTTTTTACAGCAGTAATTCCTGGCTGATTGGATTTC  
GGCAGCTGTTGGTTATCGCAGGTCCATCAATTAAGAAGCATGTTGGCGCTCATACTTCAGGTGGCATC  
TCTGCTGGGTTTTAGGCAATTGCCTTTCCCGAGCCGAACACCTTCATCGTCTCAGTATGTGGTGCCCTG  
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ACATCAACGCTGCAGATGCAGGAACCTCAACGCCATCAAAAACCTCACAGTGGCGGCAGTTAATCTCATC  
GCAGCCAGTGTTTTTATAATCATCTCCCTTGAGTTGATCTCCTGGCCGACCGTTGCCTTAATCGCGCTT  
GGCTCAGCTTTAGGTGGATACATCGGCGGACGGTACGCCCCGCCGACTTCGCCCCAGTGTTTTTAGAGCA  
TTTGTGGTCATCGTCGGAATCACCACGGTCATCGTTATGACGATCGGT

>RXC02080 - downstream  
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>RXC02095 - upstream  
CTCTCTTGGTCTCTCCCCACCCATTTTTAAGTACTCAAGACCCTTCCAACAGAAAGGATTACTCCCC  
AACAGGCTCAAAAATACTGAAAGGCTCACGC

>RXC02095  
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AGCCTTGTGGCGATGTTGCCGATGTTGATCGGAAATGTGGTCAAGCTTGTGCTCACTTTGGTGATCATG  
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TATTCGCGAAAAGCGCTTTTTGCGTCCACGTGGTTCGGCCAGCAAAAGGCTGCGGATCTGACCACTCAT  
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GATATCCGCAGGAATCTCATCGCGGTTTTTGGATGAGCCGTTCTTGTACTCCTCCTCCATACCGCGAGAA  
CATCTCGATGGGTTTGGATGTCAG  
>RXC02095 - downstream  
TGATGAGCAGATCGAACACGCAG

>RXC02206 - upstream  
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CCTCAGTAGTGTGGTGGGCGTGAAACAGCGA

>RXC02206  
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GAGCTGGCTGAGGCAGGCGATATCTTTAAGGCGTTCAATTCTGGTGGCAGCTTATCGACGTCTCC  
CCCAACTACACCACCGGCGTCGCGGAAGAAATGCTCGGCACGATGTTGGATGCGGAAGTCTCTCGTTCC  
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CGCCGCAATTTGATTGCCCAATTAGATGTCAACCTGCGGGCATTAAACACTGACTATTTGGATTGTGG  
TCTGTGGGCTATTGGGATGAGGGCACCCACCGCATGAGGTGGCCGATACTTTGGATTACGCCGTGCGC  
ACCGGCCGAGTCCGATATGCCGGTGTCCGAGGATATTCCGGTTGGCAGTTAGCGGTCACCCACGCTGCA  
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CGCGCAGAACAAGAACTCCTCCCTGCCACCCAACACCTAGGTGTGCGATTCTTTGCTGGCGCTCCGCTG  
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CGCGACGCAGAAGTCCAAAGCTACCTAGATAATCGAGGCCGCATCATTGTGATGCTCTTGATACTGCA  
GCCAAAGGATTAGGCATTAGCCCCGCTGTACAGCCACCACCTGGGTGCGTGATCGTCCCGGAGTGACA  
GCTGTCTCGTGGGCGCTCGCACACATGAACAGCTGTACATCTTCTCAAGGCGGAATCGGTGACTTTG  
CCAACACCAATCACACAAGCCCTTGATGATGTCTCCCTG

>RXC02206 - downstream  
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>RXC02207 - upstream  
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>RXC02207  
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GACATCCTCGGTGTACGCACCGAAGACGCACTCGCTATTGGTACAGTCTCCGACTTCGAAGCGGGTAGC  
CAGGTGGAATGGACGTCGATAAGCAATGCGGCGACCTGACCGCAACCGGCGGCACCTTCGTGCTCCCC  
TGCGCCGATGGCGTTTATTTGATTGATGCCAAGGACCCGGATCTGGATGAGTTGCGTGCAACTGACAAG  
CCAGTCACGGTGGCAGCCTTGACCAGCGATGATCAGCTTCTGGTGGGCAATGGTGAAGATGAAGAATC  
ACCATCTACCGCGAGGGCGAAGAGCCAGAAACCTTCACCGTCGCGGGTCCCAATACCCAGCTCATCGCC  
GTTCTGTCTATTGATCGCCACGACGCCGTTGTGCGCACCTGGAACGAAAACACCACGATTCAAGATGTG  
GACTACCCCAACGACCGTGAAGGCGGACCTTCGCGTGGGACTCGGCGTTGGTCAAATGGCTGGTGGC  
GAAGACGGCCTGCTGGTGGTCTCTGATGAAATGGGTGGCCAAATTGCCATCTACAACGCTGATGATGTC  
ATCCGACTTCAAATGACCGCCCCCACCAGCAGGAACC

>RXC02238 - upstream  
GGCGCTTAGCCAAAACATAGAGCGGTAGGGTATGCTTATCCGATTGAGCAACCTTTCCCGCTCTTAACA  
CTACTGTCCATATACTTTTGAAAAGGTGTCA

>RXC02238  
GTGACCAACGTGAGCAACGAGACCAACGCCACCAAGGCCGTCTTCGATCCGCCAGTGGGCATTACCGCT  
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GCGCGCCAGATCAACAGCTTCTACCATCAGGCAGATGAGGGAGTATTCGAGTTCATCGGACCATTTGGT  
ACTCCGACGACGGCGAAAAGCCACTTCTATTGCTCTGCGTGAGATCAATGCAGGTCTGTTGGACCAC  
GAGGAAGGT

>RXC02238 - downstream

TAAAAGACCTTATAACTTCACAC

>RXC02295 - upstream

TTCCCATGCTAATCCGCGAAAATGGCACTTCAACAGCCATATACTTTAAACAACACAAATGATGCAAGA  
CTGATACCGGGATGTGATAGGAGCGCACCAC

>RXC02295

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GACGCAGTAATCGGCGGTGGCGGACTCGTCCTCATCCCGCTGATCCTCGCGGTATGCCGCAACTCGCA  
CCTGTGACAGCGCTGGCCTCCAACAACTGGCAGCCGTACCGGCACGGCATCGGCGGCATTCACCCTG  
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GCAGGCGCCCTGGCTGCGAGTCTCATTGACAAACAAATCATGCGACCGCTGATCATCGTGTGATGCTG  
GTCGTTGGCCTGATCGTGGTGTCAAACCAAACCTTCGGAACCGGCGAAAGCAAAGCCCTGCCACCGGA  
TGGAAACGCTGGGCCGCCATCGTTGCAGTCGGACTCATCGCAGCCTACGACGGCATCTTCGGACCGGA  
ACCGGCATGTTTCTCATCATGGCGTTCACCGCACTGCTCTCCCAAATTTCTGTCTCCGCAGCCATG  
GCGAAGGTCGTAAACACCGCAACAAACCTGGGTGCGCTAATTGTATTTCATCATCGGCGGCCACATGTGG  
TGGACCCTAGGACTCGTGCTGGCAGTCGCCAATGTGCGAGGCGCACAACCTCGGTGCCGAAACGGTGCTT  
GGTGGCGGTACCAGGCTAATTAGATACGCACTACTAACCTGGTTGTCGTCATGAGCGTCTACCTCACC  
TGGCAACAAATCCAAGGAATG

>RXC02295 - downstream

TAGATAAGTCGGGGCAAACCTCTA

>RXC02380 - upstream

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>RXC02380

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GGACAGCCATGGCAAAGGCGAACAAGAAAGTCAGCCAGCGGAAGATCGTTACCTGATGACGGTGATC  
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ATCGATACCCTGCAAGATTTGAGCAAGCAATACCCGGACGCCAGCTGTACTTCATCACCGGTGCCGAT  
GCACTGGCACAGATCGTGACGTGGCGCGATTGGGAGAAAACCTTCGAACTTGCCCACTTCGTTGGAGTG  
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GATATCCCCGCCATGGCTATTTCTCCACGGACTGCAGAGAACGCTCCAGCGAAGAACGCCCTGTTTGG  
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>RXC02380 - downstream

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>RXC02390 - upstream

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GATCTCGTAGCTCGCTTCGAGTCATAGGCCG

>RXC02390

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ACCGGACTCACGGTGTGGGTGACGCTGACGGTCTGGGAGCAGCGCGCTGCTCACCCTTATCCGTCG  
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GCGTCGAGAGAGCTTATCGACGCCCCGCCAGTTCCGTTTCAACGCCGATGCCCGACCTATCCCGGATGCG  
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GTTGTATGTAATTCGCGGCAATTCTGGCTCCGTTGATGCCAGCGCACCCATCACCGGTGCTGGCGTTC  
GCTATCATCGTGGCGATTTTAGTGACAGACCTTTGTTACCTTCTCTGCTGTGTGCTCATTGTCTCTACG  
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GTTGTGGGTGTGACTCTGCTGTATGAAGGCCTGACCGGTTTACTCGGG



>RXC02390 - downstream  
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>RXC02498 - upstream  
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>RXC02498  
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GTCGATAAGCAGGAAACCCCTGAGCGTCCGGCGCCGAGCAACGAAGAAACCATGGTGCTGCGCATCGTG  
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>RXC02498 - downstream  
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>RXC02624 - upstream  
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GCAGCTCTCCCCAGCGAAGCCCTCTCATGGGCAGTGGCCTTACTGGTCATCCCTGCAATTATTGCCACC  
TGGGTCTGCGTGAGAAACCCCATGCGCCTTGCCGTGAACACAACAGCAGCAGTCATTTACGCACTGTGT  
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CGCAACCCTGTAGAAGTTAAGTCTGTTAAGGCTGTGGCTGTTGTGGAGCCCCGAGCCTGAAGAAGTTGAA  
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GAGACAGAACTGAGGCTGAAGAAACCAATGATGGTTCCGAGGCCGAAGACCGT

>RXC02624 - downstream  
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>RXC02665 - upstream  
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>RXC02665  
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GTCATGCAATTGTGGATGCTCTCCTTTCTGCCTCTGGTCTGGGGGATTGGGCTCTTTCGTTGGTGTG  
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CACGGGTACGTCAATTGGAAATGTCGCCGCCCACTGGTTGGCCAAACCCCAATTTGGACCCCGCCG  
GAAGAAGCACAACAAGTCATCTCCGAAATCATCGGCGCACCATGCTCACTGTCTGCCACCACCACTGAT  
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>RXC02665 - downstream  
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>RXC02770 - upstream  
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>RXC02770  
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>RXC02770 - downstream  
TAAGTAGTGAGCGAACAAGCTCT

>RXC02789 - upstream  
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CTAAACAATGGAAAGGTAAGCGGGTTTTCT

>RXC02789  
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CCGCGGGAAACTGGATTCAAAGGGCCAGACCTGGCCGATATTGATCGGTTGGTCGCCATCGTTGAGGAA  
TACAACGCCGTGGAAGTCATTGTTGGTCTACCCACAGATCTGCAGGGAAATGGCTCCGCCAGTGTGAAG  
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CTTGCGGACGAACGCCTCACCACCGTCGTGGCCACCAAGCCTTGCGGGCCTCAGGAGTCAGCGAAAAA  
GCGGGACGTAAAGTTATTGATCAAGCTGCCGCAGTAGAAATCCTTCAAACCTGGTTGGATGCTCGCACC  
CGAGCCCTTGAACCACAATCCACAGACACCCAAGATTTGACGAGAAGGGAAATTTCCCAGGA

>RXC02789 - downstream  
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>RXC02921 - upstream

TGGAAACTGGGAAGGGTTGACGTTGCGGAATCTCTCCGCAGCGTCGGTTCGGACCCTAAAAAAGGGTG  
AGGAACCACATGAGCTGTTTTAAGGAATTTT

>RXC02921

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GATGACATCGCTGTCAATCGATGTCTCTGACATGATCGCAATCACCGATTGCTTTGTTGTTGCATCTGCT  
GACAATGAGCGCCAGGTGGGCGCCATTGTTGAGGAGATCGAAGATGAGATGACCAAGGCTGGTTTCGAG  
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GTTTCAGCGACAGGCAGAGCGCGAGTTCTACGGACTGGATCGTCTGTACCGCGACTGCCCACTCATTGAA  
ATTGAAGGACTTGAAACCTTCAAGCGTGAATCCTCCTGGTCTGATGAGGCGGATATCCGCAACATCGAC  
AGCATTGATGAACTCCACCTTTGCCAGCTGAATACGAGCCTGGCTACGAGGACGAT

>RXC02921 - downstream

TAAGAGGTAGTCCTGTGACTCGT

>RXC03185 - upstream

AGCGCCCAACCGTTCAGACCAGCGGTTTCTCTGAGGATGCAAAGTCCATGATGGGTNAGGTCACTGAGC  
TGTCCGAAACCACC

>RXC03185

ATGAATGATCTTGCAGCTGAAGGTGAAAACGATCCTTACCGCATGGTTCAGCAGCTGCGCCGCAAGCTC  
TCTCGCTTCGTGAGCAGAAAGTGAAGCGCCAGCCGGTCATCATGCCAACCGTCATTCCGATGACTGCG  
GAAACCACGCACATCGGTGACGATGAGGTTCGCGCTTCACGCGAGTCCCTG

>RXC03185 - downstream

TAAAAGCATTTTCGCTTTTCGACG

**APPENDIX B: AMINO ACID SEQUENCES**

> RXA00007 (1-1806, translated) 602 residues  
 MKPQGLYNPA HEHDACGVAF IADHGRPSR SIVDRALEAL RNIDHRGAAG AEKNTGDGAG  
 ILMQIPDGFY REVSGIELPE AGEYATGIAF LPRGRMAMMD AQKEIERIAK QEGADV LGWR  
 MVPFDSRDLG SMAEEAMPSF AQIFLTVPGK SGEDLDRVMF FIRKRCEREL GTTNGRDTVY  
 FPSLSSRTII YKGMTTLQL EGGFEDLGDA RLESAIAIVH SRFSTNTFPS WPLAHPYRFV  
 AHNGEINTVR GNENWMRARE ALIKNDKLG N LSSVLPICTP EGSDTARFDE ALELLHLGGY  
 SLPHAVAMMI PQAWEHNKTL SPELRDFEY HSCLMEPWDG PAALAFDTGR FVGAVLDRNG  
 LRPGRITITD SGLVVMASES GVLDLREESV VKRTRVQPGR MFLVDTAAGR IVEDEEIKQK  
 LSEAQPYGEW IRDNFVHLDR LPQTRYNYMA HSRVLRQRV FGITEEDVDL LLLPMARQGA  
 EAIGSMGSDT PIAALSQRPR MLYDFFAQR A QVTNPPLDS IREKPVTSMF TLLGAQSDVL  
 NPGPDAAARI RLESPIIDNH ELATLINANA HGEWDSFGAA VISGLYPVAH HGAGMKAAIA  
 RV

> RXA00023 (1-453, translated) 151 residues  
 HFPLRPAEVV LRLDDSATPR ETARALLAAR RAGVTPRV LQ TPGVSEQVRE VLSAAGVSAE  
 TVDDSVFISN VLRGEYDENS SVRVRYLGKV SDTVRERLSV RPEVVLLDDA VTASGRVELR  
 YWLKEQAISM TLHRFGNPVA AFHELAEELK R

> RXA00044 (1-936, translated) 312 residues  
 MASATFTGVI PPVMTPLHAD GSVDVESLRK LVDHLINGGV DGLFALGSSG EAAFLTRAQR  
 KLALTTIIIEH TAGRVPVTAG VIETTTARVI ELVEDALEAG AEGLVATAPF YTRTHDVEIE  
 EHFRKIHAAA PELPLFAYNI PVSVHSNLP VMLLTAKDG VLAGTKDSSG NDGAIRSLIE  
 ARDDAGLTEQ FKILTGETT VDFAYLAGAD GVPGLGNVD PAAYAALAKL CLDGKWAEAA  
 ALQKRINHLEF HIVFVGDTSH MSGSSAGLGG FKTAHLGI IESNAMAVPH QSLSDDEETAR  
 IHAIVDEFLY TA

> RXA00064 (1-1278, translated) 426 residues  
 MSSVSLQDFD AERIGLFHED IKRKFDLKS KNLKLDLTRG KPSSEQLDFA DELLALPGKG  
 DFKAADGTDV RNYGGLDGIV DIRQIWADLL GVPVEQVLG DASSLNIMFD VISWSYIFGN  
 NDSVQPWSKE ETVKWICPVP GYDRHFSITE RFGFEMISVP MNEDGPDMDA VEELVKNPQV  
 KGMWVVPVFS NPTGFTVTE VAKRLSAMET AAPDFRVVWD NAYAVHTLTD EFPEVIDIVG  
 LGEAAGNPNR FWAFTSTSKI TLAGAGVSFF LTS AENRKWY TGHAGIRGIG PNKVNQLAHA  
 RYFGDAEGVR AVMRKHAASL APKFNKVEI LDSRLAEGV AQWTVPAGGY FISLDVVPGT  
 ASRVAELAKE AGIALTGAGS SYPLRQDPEN KNLRLAPSLP PVELEVAMD GVATCVLLAA  
 AEHYAN

> RXA00072 (1-441, translated) 147 residues  
 MSFQLVNALK NTGSVKDPEI SPEGPRTTTP LSPEVAKHNE ELVEKHAAAL YDASAQEILE  
 WTAEHAPGAI AVTLSMENTV LAELAARHLP EADFLFLDTG YHFKETLEVA RQVDERYSQK  
 LVTALPILKR TEQDSIYGLN LYRSNPA

> RXA00075 (1-663, translated) 221 residues  
 MTTPLRVAVI GAGPAGIYAS DLLIRNEERE VFVDLFEQMP APFGLIRYGV APDHPRIKGI  
 VKSLHNVLDK PRLRLGNIE IGKDITVEEL RDYYDAVVFS TGAVADRD LN IPGIEAEGSF  
 GAGEFVGFDY GNPRFERSWD LSAQSVAVIG VGNVGLDVAR ILAKTGDELK VTEISDNVYD  
 SLKENKXXEV HVFGRRWPST GQVHPTGTXR TXPLPHHQRG C

> RXA00105 (1-675, translated) 225 residues  
 MTVPTPYEDL LRKIAEEGSH KDDRTGTGTT SLFGQQIRFD LNEGFP LLTT KKVHFHHSVVG  
 ELLWFLQGDS NVKWLQDNNI RIWNEWAED GELGPVYGVQ WRSWPTPDGR HIDQISGALE  
 TLRNNPDSRR NIVSAWNVSE LENMALPPCH LLFQLYVADG KLSCQLYQRS ADMFLGVFPN  
 IASYALLTHM FAQQAGLEV G EFIWTGGDCH IYDNHKEQVA EQLSR

> RXA00106 (1-456, translated) 152 residues  
 MIGAIWAQGR DGIIGDGTDM PWHIPEDLKH FKKTTMGQPV IMGRRTWESL PFKPLPGREN  
 FILSSREPGD WSAGGTVVTE IPKSGWIMGG GEVYKATVGS ADVLEITLID ATFDVSTPVY  
 APEIPANFNL DDESEWFTSG EYRYKFQRYI KV

> RXA00115 (1-1047, translated) 349 residues

MLDNSFYTAE VQGPYETASI GRLELEEGGV IEDCWLAYAT AGTLNEDKSN AILIPTWYSG  
THQTWFQQYI GTDHALDPSK YFIISINQIG NGLSVSPANT ADDSISMSKF PNVIRIGDDVV  
AQDRLLRQEF GITELFAVVG GSMGAQQTye WIVRFPDQVH RAAPYAGTAK NTPHDFIFTQ  
TLNETVEADP GFNGGEYSSH EEVADGLRRQ SHLWAAMGFS TEFWKQEAWR RLGLSKESV  
LADFLDPLFM SMDPNTLLNN AWKQWQHDVS RHTGGDLAAA LGRVKAKTFV MPISEDMMFFP  
VRDCAAEQAL IPGSELRVIE DIAGHLGLFN VSENYIPQID KNLKELFES

> RXA00116 (1-507, translated) 169 residues  
MTQRAVEAGA INLGQGFPE DGPRRMLEIA SEQILGGNNQ YSAGRGDASL RAAVARDHLE  
RFDLEYNPDS EVLITVGATE AITATVLGLV EPGDEVIVLE PYYDAYAAAI ALAGATRVAV  
PLQEVENSWD VDVKLHAAV TKKTRMIIVN SPHNPTGSVF SKKALKQLA

> RXA00131 (1-609, translated) 203 residues  
MIVSIEGIDG AGKNTLVSAI TQVIDAKVLA FPRYETSIHA QLAAEALHGR MGDLTDSAYA  
MATLFALDRH FAIDDLNAPG VVLLDRYVAS NAAITAARLL DDDAPRWVAD LEFGRLGLPR  
PTLQVLLDTP AEVAQDRARR REALDSARAR DRYESDSALQ QRTAEHYRRL AADNWESPWI  
VVAPDEDPGH VAQRIVEFLG TIN

> RXA00132 (1-105, translated) 35 residues  
HVEALGGQLT ELTKEQAIEI GVDVAGPFPK EHYRY

> RXA00145 (1-936, translated) 312 residues  
MKHLLSISDL SKDEIVGLLD EADRFKEVLE GREVKKLPTL RGRITFTLFY ENSTRTRSSF  
ETAGKWSAD VINISASSSS VKKGESLKDT GLTSLAIGAD AIIMRHPASG AAQQLAQFVA  
PGNGGPSVIN AGDGSQHPT QALLDALTR QRTGRIEGLK VVIVGDCLHS RVVRSNVDLL  
STLGAEEVVLV APPTLLPIGV ENWPVRFSDY MDAEIAADV VMMLRVQQR MQGGFFPSHR  
EYATLYGMSK EREARLKDSA IIMHPGPMLR GMEINFQVAD APRTAVLQQV SNGVHMRMAI  
LFALVAGSDA TI

> RXA00146 (1-1341, translated) 447 residues  
VVDSNTQYPE TGALAPAPAD SLLISNVLVY GEGEPTNVFV KDGVIAAIGG THEADRTIDG  
NGGVLLPGFV DMHVHLREP G REDTETIATG SAAAAGGFT AVFTMANTTP VMDQPVIAES  
VWFKGQNI GL CDVHPVGSIT KGLEGKELTE FGMMARSEAK VRMFSDDGKC VDDPQVMRRA  
LEYAKGMVDV IAQSAEHRL TEGASAHEGE NAARLGLRGW PRVAEESIVV RDAIMARDYG  
NRVHICHAET EGTVELLRWA KSQGIPTAE VTPHHLTLTD ERLETYDAVN KVNPLRESR  
DAEALKKALL DGTIDVVATD HAPHGSEDKC CEFENAKPGM LGLETSLII VDTFVATGLA  
DWRFRVARVMS ERPAEITRLP GQGRPIAEGE PANLAIVDPG KTWTASGADF ASKAENTPFE  
GQEFSAKVTH TVLRGKVTC A DGVAQNA

> RXA00147 (1-1179, translated) 393 residues  
VSKDTTTYQG VTEIGSVPAY LVLADGRFTF GFGFGAIGTT LGEAVFTTAM TGYQETMTDP  
SYHRQIVVAT APQIGNTGWN DEDNESRDGK IWVAGLVIRD LAARVSNWRA TTSLLQEQMAG  
QGIVGIGGID TRALVRHLRN EGSIAAGIFS GADAQRPVEE LVEIVKNQPA MTGANLSVEV  
SADETYVIEA EGEERHTVVA YDLGIKQNTF RRFSAARGVRT VIVPAETPFE DIKQYNPSGV  
FISNGPGDPA AADVMVDIVR EVLEADIPFF GICFGNQILG RAFGMETYKL KFGHRGINVP  
VKNHITGKID ITAQNHGFAL KGEAGQEFET DFGTAIVTHT CLNDGVVEGI ALKSGRAYSV  
QYHPEAAAGP NDASPLFDQF VELMDADAQK KGA

> RXA00156 (1-1110, translated) 370 residues  
MNERTSDAFD ALLVLSFGGP EGHEEVRPFL ENVTHGRGIP PERLDEVAVH YHHFGGISPI  
NALNREIIAN VEKELASRDH KLPVYFGNRN WKPFNEAAE QMADDGVKNA LVLATSAWGG  
YSGCRQYQED IQGMIKHLES QQSITFTKL RQFYDHPRFV STMAQLVQDS YAKLPDELDR  
EARLVFTAH S IPLTADNAAG TPEDGSLYST QVKEASALIA EAVGVSDFDV VWQSRSGSPH  
TPWLEPDIVD HAVELNEKGQ KALVVCPVGF ISDHMEVIWD LDSELMEEA E KRNMVVERVA  
TVGPTDEFAA LVVDLIEEA E LKRVIERLKG LPARGSSVNG APCGDGCCGT AKHKTARVNP  
NARSAAPAAN

> RXA00166 (1-660, translated) 220 residues  
VELARGFGRV LDVGAGTGKL TSELTADQVL ALDPSMDMLR VFRSALPAVP CWQATAEHTG  
IRDNAVDLIT CAQTWHWVDV TAASAEFDRV IAPEGAVLLV WNNLDTSIAW VHRLSRIMHA  
GDVLKPGFTP ETAAPWIIDR EIRTTWNQHL TPEEIIQLAH TRSYWLNASE KIKERVDQNL

QWYLYEHLGF SPDNPVELPY RCDAFLLSRS GTLAGRSSNL

> RXA00198 (1-282, translated) 94 residues  
LVLVALGFTG AEQGGLAHEL GVGFDGDRGRI LRDSEYRSPT NSRVYIAGDN GRGQSLIVWA  
IAEGRACAAA IDADLMGETA LPVAVAPQDV PLAV

> RXA00216 (1-990, translated) 330 residues  
LGAYGLGELP GKSAEEAADI IQGETGDLH IPQLPARGLG ADLIGRTVGL LDMINVDRGA  
RSWVMSTRPS RLTHLTGDFL DMDLDACEET WGTGVDKLI QVAGPWTGGA RIELANGHRV  
LSDRGAMRDL TQALIAGIDA HARKVAGRFR AEVQVQIDEP ELKSLIDGSL PGTSTFDIIP  
AVNVADASER LQQVFSSIEG PTYLNLTGQI PTWDVARGAG ADTVQISMDQ VRGNEHLDGF  
GETITSGIRL GLGITTGKDV VDELLERPRQ KAVEVARFFD RLGVGGRNYLV DAVDIHPGED  
LVQGTITEAA QAYRMARVMS EMLSKDSCDL

> RXA00219 (1-942, translated) 314 residues  
VARKKNTSDQ SRSQAANTPI AGTYEGEYSV IELEADSYTT DGWLISINGV PSSHIVLGQP  
QALEFEYMRW IATGARAFID AHQDASKLRI THLGGGACTM ARYFADVYPQ SRNTVVVELDA  
ELARLSREWF DIPRAPRVKI RVDDARMVAE SFTPASRDVI IRDVFAGAIT PQNFTTVEFF  
EHCHRGLAPG GLYVANCGDH SDLRGAKSEL AGMMEVFEHV AVIADPPMLK GRRYGNIIIM  
GSDTEFFSSN STEASAITRE LLGGGVPAQY KDESWVRKFA SGAQARHDGV STLQMPSDTP  
QHPAETPEHS NTQP

> RXA00223 (1-1089, translated) 363 residues  
MREVAAAAWM ENAQALNPAS QYSGRKARS VADSAREEIA SLLGCEPIEV VFTASGTEAD  
NLAVQGLFHA SPLNRIISTP IEHPGILETV KALELGGAEA ELMPIGPDGR VSSFEALDKP  
AAVATMMWAN NETGAIQPVs EFIAAAQASG TPTHIDAVQV VGHLVPNFDE LGATTLAASA  
HKFGGPRGVG LLLVRRSPAP SAVLHGGGQE RGIRPGTLDV AGAAATAAAL REAVAELDGE  
ATRLRGLKKM LLDAILHTIP NVLVHTTEPS LPGHLHLSFP GAEGDSLIML LDSLRIEAST  
GSACSNGVNR ASHVLLAMGI SETDARGAIR FTLGRTTTEE SIKAVIAVIE DVVTRARTAG  
MAF

> RXA00229 (1-780, translated) 260 residues  
EAKGLAQGRA TVYRRIDTLG SRASGQDLNT LLDAALYLGF SGLNITHPYK QAVLPLLGEV  
SEQATQLGAV NTVVM DATGH TTGHNTDVSG FGRGMEGLP NAKLDSVVQV GAGGVENAVA  
YALVTHGVQK LQVADLDTSR AQALADVINN AVGREAVGV DARGIEDVIA AADGVVNATP  
MGMPAHPGTA FDVSLCTKH WVGDVVYMPI ETELLKAARA LGCETLDGTR MAIHQAVDAF  
RLFTGLEPDV SRMRETFLSL

> RXA00241 (1-1503, translated) 501 residues  
VNTQSDSAGS QGAAATSRTV SIRTLLIALII GSTVGAGIFS IPQNIQSVAG PGAMLIGWLI  
AGVGMLSVAF VFHVLARRKP HLDGSGVYAY RVGLGDYVGF SSAWGYWLGS VIAQVGYATL  
FFSTLGHYVP LFSQDHPFVS ALAVSALTWL VFGVVSARGIS QAAFLTTVTT VAKILPLLFC  
IILVAFLGFS WEKFTVDLWA RDGGVGSIFD QVRGIMVYTV WVFIGIEGAS VYSRQARSRS  
DVSRA TVIGF VAVLLLLLSI SSLSFGVLTQ QELAALPDNS MASVLEAVVG PWGAALISLG  
LCLSVLGAYV SWQMLCAEPL ALMAMDGLIP SKIGAINSRG AAWMAQLIST IVIQIFIIIF  
FLNETTYVSM VQLATNLYLV PYLFSAFYLV MLATRGKGIT HPHAGTRFDD SGPEISRREN  
RKHLIVGLVA TVYSVWLFYA AEPQFVLFGA MAMPLGLIPY VWTRIYRGEQ VFNRFEGV  
VVLVVAASAG VIGLVNGSLS L

> RXA00254 (1-594, translated) 198 residues  
QPLKLGAHAV LHSTTKYIGG HSDVVGGLVV TNDQEMDEEL LFMQGGIGPI PSVFDAYLTA  
RGLKTLAVRM DRHCDNAEKI AEFLDSRPEV STVLYPGLKN HPGHEVAAKQ MKRFGGMISV  
RFAGGEEAAK KFCTSTKLC LAESLGGVES LLEHPATMTH QSAAGSQLEV PRDLVRISIG  
IEDIEDLLAD VEQALNNL

> RXA00262 (1-819, translated) 273 residues  
VAGHLITTP I EHDSVLETA YLERFHDFEI TYLSPDHTGL ISPEGLRKAV RPDFTLISIG  
YANNEVG TIQ PIAELAAVSS TPFHTDAVQA AHLTFDLGVD ALSLSGHKFG APKGIGVLWS  
KLPLEPVIHG GGQEKGRSG TENVAGAI AF ATALELARE SYPDLGEFIE EVLTIPGAHL  
TGHPMRIDG HASFLFDSIG SETVLELER QGIVCSPGSA CGSGEVSHVL LALGLEEDQA  
RTAVRCTFST THSREDALVA ASALKSAVAL IRG

> RXA00266 (1-408, translated) 136 residues  
 MTERTLILIK PDGVTNGHVG EIIARIERKG LKLAALDLRV ADRETAEKHY EEHADKPFFG  
 ELVEFITSAP LIAGIVEGER AIDAWRQLAG GTDPVAKATP GTIRGDFALT VGENVVHGSD  
 SPESAEREIS IWFPNL

> RXA00278 (1-1032, translated) 344 residues  
 MHAFFRRPPL TTRVGAALLA ATLLASCTPT PVEPAETLTA LDPDAGPPLP PDSSIEAPGE  
 KEPIVEVIEN WPGSLRPDDL TPEERVPGIV NRGRIIVGVD QSQNLLSFRD PVTGELRGFE  
 VELAREISRD IFGDPNKVDF RFVGSDDLRLR SLDQGDVDIV IRSVTITDER AKLVEFSTPY  
 LRTQTRMLTM ESSGITSIAD LPGHTICVTD GSTSLQRART IAPASILKT RNWSDCLMAL  
 QQHQQAQVILG DDVILSGIAA QDPYTEILDT SLDSSHSYGVA AASTTAETDS SGLIRQVNYT  
 IERIRTDMMW WTMFDDWFGP YLWSYGPPQL QYMPEEEGTE NDEG

> RXA00295 (1-1002, translated) 334 residues  
 MTIPGTILDY ARTQVLEQGI GLNQQQLMEV LTLPEEQIPD LMELAHQVRL KWCGEIEVE  
 GIISLKTGGC PEDCHFCSQS GLFESPVRSV WLDIPNLVEA AKQTAKTGAT EFCIVAAVKG  
 PDERLMTQLE EAVLAIHSEV EIEVAASIGT LNKEQVDRLA AAGVHRYNNH LETARSYFPE  
 VVTHTTWEER RETRLRLVAEA GMEVCSGGIL GMGETLEQRA EFAVQLAELD PHEVPMNFDL  
 PRPGTPFADR ELMDSRDALR SIGAFRLAMP HTMLRFAGGR ELTLGDKGSE QALLGGINAM  
 IVGNYLTTLG RPMEDDLDM DRLQLPIKVL NKVI

> RXA00306 (1-933, translated) 311 residues  
 DSGIPTQLVE GSWFEPVRGR TFDRIIANPP FVVGPPPEIGH VYRDSGMDLD GATALVVKEA  
 CAHLNPGGTA HLLGAWVHSA DQSWQORVAE WLPDNGYVAV VIERDAVSPA QYVGTWLSDE  
 SLDLRSPEAA ARTTAWLNHF EKAKVQGVGF GFIAIQRLEE DEADEKSDIL AESMTQYFED  
 PLGPEIEEYF TRTAWLREQT RDSILSSRFK VRPGVAREQI SLADAEEGMG FSPVTLRLTR  
 TDGPRWSDHV DEHVASIVAG LNPGLPFEE ILEMYAMAQG IEGESLHNGA IAALVDLIRH  
 GLVLPADLLD S

> RXA00323 (1-1338, translated) 446 residues  
 MNSEQEFVLS AIEERDIKIV RLWFTDILGH LKSVVAPAE LESALEEGIG FDGSAIEGYA  
 RISEADTIAR PDPSTFQVLP LEAGISKLQA ARLFCDVTMP DGQPSFSDPR QVLRQVQLA  
 ADEGLTCMIS PEIEFYLVQS LRTNGLPPVP TDNGGYFDQA TFNEAPNFRR NAMVALEELG  
 IPVEFSHHET APGQOEIDLR HADALTMADN IMTFRYIMKQ VARDQGVGAS FMPKPFQEHA  
 GSAMHTHMSL FEGDTNAFHD PDDSYMLSKT AKQFIAGILH HAPEFTAVTN QWVNSYKRIV  
 YGNEAPTAAT WGVSNRSALV RVPTYRLNKE ESRRVEVRLP DTACNPYLAF SVMGLAGLKG  
 IKEYELDEP AEDDISNLSF RERRAMGYND LPSSLDQALR QMEKSELVAD ILGEHVFEFF  
 LRNKWREWDRD YQEQUITPWEL RNNLDY

> RXA00324 (1-3135, translated) 1045 residues  
 MSGPLRSEK VVGFRDPLP KVGSLSLKSE HAQADLEHLG WRNVESLDLL WGLSGAGDPD  
 VALNLLIRLY QALEAIGEDA RNELDQEIQR DEKLRVRLFA LLGGSSAVGD HLVANPLQWK  
 LLKLDAPSRE EMFQALLESV KAQPAVLEVE DFSDAHNIAR DDLSTPGFYT ASVTGPEAER  
 VLKWTYRTLL TRIAAHDLA TYPTDMRRKG GDPVPFSTVT MQLSDLADAA LTAALAVAIA  
 NVYGEKPVDS ALSVIAMGKC GAQELNYISD VDVVFVAEPA NSKSTRTAAE LIRIGSNSFF  
 EVDAALRPEG KSGALVRS LD SHMAYYKRW A ETWEFQALLK ARPMTGDINL GQSYVDALSP  
 LIWTASQRES FVTDVQAMRR RVLDNVPEDL RDRELKLGRG GLRDVEFAVQ LLQMVGHRID  
 ETLRVRSTVN ALHVLVDQGY VGREDGHNLI ESYEFLRLL HRLQLERIKR THLLPKPDDR  
 MNMRWLARAS GFTGSMEQSS AKAMERHLRK VRLQIQSLHS QLFYRPLLNS VVNLSADAIR  
 LSPDAAKLQL AALGYLHPSR AYEHLTALAS GASRKAKIQA MLLPTLMEWL SQTAEPDAGL  
 LNYRKLSDAS YDRSWFLRML RDEGVVGQRL MRILGNSPYI SELIISTPDF MKQLGDAASG  
 PKLLATAPTQ VVKAIKATVS RHESPDRAIQ AARSLRRQEL ARIASADLLN MLTVQEVCSQ  
 LSLVWDAVLD AALDAEIRAA LNDPQKPDQP LANISVIGMG RLGGAEELGY SDADVMFVCE  
 PVAGVEEHEA VTWSIAICDS MRSRLAQPSG DPPLEVDLGL RPEGRSGAIV RTVDSYVKYY  
 EKWGETWEIQ ALLRAAWVAG DRELGIKFLE SIDRFRYPVD GATQAQLREV RRIKARVDNE  
 RLPRGADRNT HTKLGRGALT DIEWTVQLLT MMHAHEIPEL HNTSTLEVLE VLEKHQIINP  
 VQVQTLREAW LTATAARNAL VLVRGKRDLQ LPTPGPHLAQ VAGASGWDPN EYQEYLENYL  
 KVTRKSRQVV DEVFWGVDSM EQREF

> RXA00330 (1-1443, translated) 481 residues

VDYISTRDAS RTPARFSDIL LGGLAPDGGL YLPATYPQLD DAQLSKWREV LANEGYAALA  
 AEVISLFVDD IPVEDIKAIT ARAYTYPKFN SEDIVPVTEL EDNIYLGHLS EGPTAAFKDM  
 AMQLLGELFE YELRRRNETI NILGATSGDT GSSAEYAMRG REGIRVFMLT PAGRMTPFQQ  
 AQMFGLDDPN IFNIALDGVF DDCQDVVKAV SADADEFKKN RIGAVNSINW ARLMAQVYYY  
 VSSWIRTTTS NDQKVSFSVP TGNFGDICAG HIARQMGLPI DRLIVATNEN DVLDEFFRTG  
 DYVRSSADT HETSSPSMDI SRASNFERFI FDLLGRDATR VNDLFGTQVR QGGFSLADDA  
 NFEKAAAEYG FASGRSTHAD RVATIADVHS RLDVLIDPHT ADGVHVARQW RDEVNTPIIV  
 LETALPVKFA DTIVEAIGEA PQTPERFAAI MDAPFKVSDL PNDDTAVKQY IVDAIANTSV  
 K

> RXA00335 (1-1431, translated) 477 residues

VAFETPEEIV KFIKDENEVEF VDVRFDTLPG TEQHFSIPAA SFDADTIEEG LAFDGSSIRG  
 FTTIDESDMN LLPDLGTATL DPFRKAKTLN VKFFVHDPFT REAFSRDPRN VARKAEQYLA  
 STGIADTCNF GAEEFYLFED SVRYSTEMNS GFYEVDTEEG WNNRGKETNL DGTPLNGAKN  
 RVKGGYFPVA PYDQTVDVDR DMVRNLAASG FALERFHHEV GGGQQEINRYR FNTMLHAADD  
 IQTFKYIIKN TARLHGKAAT FMPKPLAGDN GSGMHAHQSL WKDGGKPLFHD ESGYAGLSDI  
 ARYYIGGILH HAGAVLAFTN ATLNYSYHRLV PGFEAPINLV YSQNRNSAAV RIPITGSNPK  
 AKRIEFRAPD PSGNPYLGFA AMMMAGLDGI KNRIEPHAPV DKDLYELPPE EAASIPQAPT  
 SLEASLKALQ EDTDFLTESD VFTEDLIEAY IQYKYDNEIS PVRLRPTPQE FELYFDC

> RXA00347 (1-768, translated) 256 residues

MTLTIEEIAK TKKLLVVSDF DGTIAGFSKD AYNVPINQKS LKAVKDLSQQ ADTDVVILSG  
 RHLEGLKTVL DLGQYDITMV GSHGSEDSSR PRTLTPEEVA RLAKIEADLE KIVDGI EGAF  
 VEIKPFHRVL HFIRVSDKDK VQGILAQAAH VDSSGLKVTN GKSIIEYSIS STTKGTWLKE  
 YVDRTEPTGV IFLGDDTTDE HGFKALEND RALTVMKVGEG DTAAKTRVDD VDNVGFLEK  
 LAYHRMQYAE SVRLGI

> RXA00351 (1-1446, translated) 482 residues

MDDSNSFVVV ANRLPVDMTV HPDGSYSISP SPGGLVTGLS PVLEQHRGCW VGWPGTVDVA  
 PEPFRDGTGV LLHPVVLTAAS DYEGFYEGFS NATLWPLFHD LIVTPVYNTD WWHAFREVNL  
 KFAEAVSQVA AHGATVWVQD YQLLLVPGIL RQMRPDLKIG FFLHIPFPSP DLFRQLPWRE  
 EIVRGMLGAD LVGFHLVQNA ENFLALTQQV AGTAGSHVGO PDTLQVSGEA LVREIGAHVE  
 TADGRRVSVG AFPISIDVEM FGEASKSAVL DLLKTLDEPE TVFLGVDRDL YTKGILQRL  
 AFEELLESQA LEADKAVLLQ VATPSRERID HYRVSRSQVE EAVGRINGRF GRMGRPVVHY  
 LHRSLSKNDL QVLYTAADVM LVTPFKDGMN LVAKEFVANH RDGTGALVLS EFAGAATELT  
 GAYLCNPFVD ESIKRQMVAA VHDLKHNPEA AATRMKTNSE QVYTHDVNVW ANSFLDCLAQ  
 SG

> RXA00352 (1-858, translated) 286 residues

MHLGKLDQDS ATTILEDYKN MTNIRVAIVG YGNLGRSVEK LIAKQPDMDL VGIFSRATL  
 DTKTPVFDVA DVDKHADDVD VLFCLMGSAV DIPEQAPKFA QFACTVDTYD NHRDIPRHRQ  
 VMNEAATAAG NVALVSTGWD PGMFSINRVY AAVALAEHQO HTFWGPGLSQ GHSDALRRIP  
 GVQKAVQYTL PSEDALEKAR RGEAGDLTGK QTHKRQCFVV ADAADHERIE NDIRTMPDYF  
 VGYEVEVNFI DEATFDSEHT GMPHGGHVIT TGDGTGGFNHT VEYILK

> RXA00364 (1-1293, translated) 431 residues

LPRPEEHAHR ELDLGGEYKW RREGYHLEN PETIFKLQHA TRSGSYEIFK DYTRKVDDQS  
 TRLTGTIRGLF EFSTDRKPIS VSEVEPVSEI VKRFSTGAMS YGSISAEAE VLAIAMNRLG  
 GMSNSGEGGE DARRFDVEPN GDWKRSAIKQ VASGRFGVTS HYLNNCTDIQ IKMAQGAQPG  
 EGGQLPPNKV YPWVAEVRIT TPGVGLISPP PHHDIYSIED LAQLIHDLKN ANPRARIHVK  
 LVAEQGVGTV AAGVSKAHAD VVLISGHGSG TGASPLTSLK HAGGPWELGL AETQQTLLN  
 GLRDRIRVQC DGQLKTGRDV VIAALLGAEE FGFATAPLVV EGCIMMRVCH LDTCPVGIAT  
 QNPDLRSKFT GKAHVNVNFF TFIAQEVREY LAQLGFRSID EAVGQAQVLR KRSGIPADSR  
 AAHLDSLPIF I

> RXA00365 (1-627, translated) 209 residues

MILSPSKTFE LEIVEKAFRE GWVQPVIPSM STGLSVAVVG SGPAGLAAAQ QLTRAGHSVT  
 VFERDDRLGG LMRYGVPEYK MENRWIDRRI EQMEAEGTTF QVGTSPRAAE LALFDAILLA  
 TGTPVARELS VPGHDLNGIH AAMDYLTAQN RINEGDGEVS PINAKGKKVV IIGGGDTGTD  
 CFGTALRQGA ESVTQFDIRP RAFFQRADS



> RXA00366 (1-357, translated) 119 residues  
 MADPQGFIFY SRREPAHRPV PLRLMDHSEV YEKAPAGQIE EQAARCMDCG VPFCHGECPL  
 GNIIEPWNDL VRQGRWKEAY DRLHATNNFP EFTGRLCPAP CEGACVLGIN DDSVTIKNV

> RXA00367 (1-843, translated) 281 residues  
 HSLEKALDNA FIDKASDTIT RAAAGVETSI VIDSSISNVN RSVGTMLGSA VSRVAGAQGL  
 PDGTITLNLQ GCAGNSFGAF IPRGITINLT GDANDFVGKG LSGGKIVIKP SAQAPKQLKN  
 NPNIIAGNVL GYGATSGELF IRGQVGERFC VRNSGATAVV EGIGNHGCEY MTGGRVLVLG  
 PVGENFGAGM SGGIAYLANS PDLNQKINGE LVDVVPLSAD DLTWADELIA RHRELTGSET  
 KLRAQDLVKI MPRDFQKVLN IIETAHAEGQ DPAIKIMEAV S

> RXA00371 (1-924, translated) 308 residues  
 MTIAHKPEMA ETTGIETNQV SETIGVESLT HGNLRPVSSF EGQHEGQTEE LLPGKVIFVG  
 AGPGNPDLT VRAREVLGNA VRAITDEQVL SGVRAFVATE IPVPEDKLQA AEDEYERICI  
 EAKENGARRK PPRPAPTAA EITEVSEATP AQIVELVQDA LSYGGDVIRL VTGNPLSSDA  
 TLAEISAVSE AGLEFQVVP GMSLPATVPAF AGIALGSTYT ETDVNGQNLD WDQLASAPQP  
 LVLQARVDDL SRIAQELKAR NMSLETPVSV TANGTTRLQR TYDTTLGLLH KLD AELSGPL  
 VVTLGKGV

> RXA00374 (1-732, translated) 244 residues  
 TISVEPPRNP AQMERAIKGI VEGRYQWVVL TSVNAVKA VV KKITEFGLDS RSFAGVRIAA  
 VGEKTAAEIR ALGITPELLP ARTRQNAQGL VDVFPPEYFEE LDPVGRVLLP RADIATDVLV  
 DGLTHLGWEV EDVVAYRTVR AAPPSADIRD MIKTGGF DAV AFTSSSTVKN LVGIAGKPHP  
 RTIVACIGPM TAATAEELGL RVDVMPEIAE VPELIDALAE HVADLRKAGE LPPPRKKRRR  
 RKAS

> RXA00376 (1-282, translated) 94 residues  
 MRFAIIGAGL AGLTAAYEIH KADPTAQIDV LEAGERIGGK LFTVPFASGP TDIGAEAF LA  
 ARSDAVEFFT ELGLADSLVS PSAAKSQYFA GGAL

> RXA00377 (1-1122, translated) 374 residues  
 VWLLFLNWDK WGKIERSAL TIPAAARRTLN NAPIIDAANG KTPTRTPVWF MRQAGRSLPE  
 YKKVREGISM LDSCFMPELL AEITLQPVRH HDVDAAILFS DIVVPLRAAG VGVEIVAGRG  
 PVLDAVRSR GDVLNLPILE GNVPEVEQGI GIILDELSDS QALIGFAGAP FTLASYLVEG  
 GPSKNHEKTK AMMHGDPETW HALMARLVPT IVNSLKSQID AGIDAVQLFD SWAGFLTERD  
 YTEFVLPYST EILEEVGKYQ LPRIHFGVGT GELLGAMSKA GSEVMGVDWR VPLDKAAERI  
 AAVSGPKVLQ GNLDPAL LFA GRAPLTKEIE RIKAEAQTAV DAGHATGHIF NLGHGVLPNT  
 VAEDITEAVS IIHS

> RXA00382 (1-1302, translated) 434 residues  
 MTSSNTARSA EWFEKAQKLT PGGVNSPVRA FGSVGGQARF IEKAHGSTLI DVDGNEYVDL  
 VCSWGPMLMG HAHPAVVEAV QKAVVDGLSF GAPTIGLEVEL AQDIVKRTSV EEVRLVNSGT  
 EATMSAVRLA RGYTQRSKIL KFEGCYHGHV DALLASAGSG VATFALPDSP GITGAQTS DT  
 IVVPYNDIEA VRNAFAEYPG EIACIIAEAA GGNMGT VAPK DNFNDKLLAI AHADGALLIL  
 DEVMTGFRTS YRGWFGVDKV AADLVTFGKV VSGGLPAAAF GGKAEIMNML APQGPVYQAG  
 TLSGNPVAVA AGRASLKLAD ESLYTTINAN ADRLHGLISD ALTHEGVAHH IQRASNMLSI  
 RFAEGEGHNF SDMKAADIFR FAPFFHTLLD NGVYAPPSVF ETWVSSALT DDDFSKIEQA  
 LKPAARAAA AKAS

> RXA00383 (1-1014, translated) 338 residues  
 AGAQDTAFDW TPGQDISVGA LVRRQYGDEI VDTVSSLLG GVSSTADDL GVRASVPALA  
 AALDQLAEAG EPVTL SAAVK AVEAQREAAK TTSETRPVFQ TFKGGYAE LY EALAEQCGAD  
 IHLDSFVSAI TKDGEGFAIK GGEGTYDKV ILAVPAPTAA VLLRDLAPAA APHLRAIKLA  
 SSAVVGMRFD SSEGLPDNSG VLVAVNEPGI TAKAFTFSSK KWPHLEARGG ALVRASFGR L  
 GDEASARMDE DLLVDAALDD LLTITGFDGR AAGLGEIFVQ RWFGGLPAYG VDHIATVSAA  
 RAEIAAVPGV EAIGAWAGGV GVP AVIADAQ AAVHRLLG

> RXA00391 (1-720, translated) 240 residues  
 LLRDSQRVGL AIDPSIALVM ATSGSTGTPK GAQLTPLNLV SSADATHQFL GGEGQWLLAM  
 PAHHIAGMQV LLRS LIAGVE PLAIDLSTGF HIDAFAGAAA ELKNTGDRVY TSLTPMQLLK

AMDSLQGIEA LKLFVDVILVG GAALSKQARI SAEQLDINIV TTYGSSETSG GCVYDGKPIIP  
GAKVRISDER IELGGPMIAQ GYRNAPEHPD FANEGWFTTS DSGELHDGIL TVTGRVDTRH

> RXA00393 (1-882, translated) 294 residues  
MSHTEPQPNs VTLSDWIQGA RPRTWANAFa PVIAGSGVAA FHDGfVWWKA LLALVVAWAL  
IIGVNYANDY SDGIRGTDED RTGPLRLTGS GLAEPKKVKA AAFISFGIAG VAGTALSLLS  
AWWLILIGIL CVLGAWFYTG GKNPYGYRGL GEIAVFIFFG LVAVMGTQFT QTGSVSWAGL  
AAAVGVGSMS AGVNLANNIR DIPTDSKTGK ITLAVRLGDA GARKLFLALI STPFIMSICL  
AFVAWPALIA IIVFPLALKA AGPIRNNATG KDLIPSSAQQ GAPWRCGPCS RAWH

> RXA00402 (1-576, translated) 192 residues  
VLPYFVTPDA AYHGLKYADL GAPAFGLKVR VGLLRDTGST LSAFNAAVAV QGIDTSLRL  
ERHNENAIKV AEFLNNHEKV EKVNFAGLKD SPWYATKEKL GLKYTGsvLT FEIKGGKDEA  
WAFIDALKLH SNLANIGDVR SLVVHPATTT HSQSDEAGLA RAGVTQSTVR LSVGIETIDD  
IIADLEGGFA AI

> RXA00403 (1-1110, translated) 370 residues  
MPTLAPSGQL EIQAIGDVST EAGAIITNAE IAYHRWGEYR VDKEGRSNVv LIEHALTGDS  
NAADWWADLL GPGKaintDI YCVICTNVIG GCNGSTGPGS MHPDGNFWGN RFPATSIRDQ  
VNAEKQFLDA LGITTVAAVL GGSMGGARTL EWAAMYPETV GAAAVLAVSA RASAWQIGIQ  
SAQIKAIEND HHWHEGNYYE SGCNPATGLG AARRIAHLTY RGELEIDERF GTKAQKNENP  
LGPYRKPDQR FAVESYLDYQ ADKLvQRfDA GSYVLLTDAL NRHDIGRDRG GLNKALesIK  
VPVLVAGVDT DILYPYHQQE HLSRNLGNLL AMAKIVSPVG HDAFLTESRQ MDRIVRNFFS  
LISPDENPNS

> RXA00405 (1-513, translated) 171 residues  
MPKYDNSNAD QWGFETRsiH AGQSVDAQTS ARNLPIYQST AFVFDsAEHA KQRFaLEDLG  
PVYSRLTNPT VEALENRIAS LEGGVHAvAF SSGQAATTNA ILNLAGAGDH IVTSPRLYGG  
TETFLITLNL RLGIDVSFVE NPDDPESWQA AVQPNTKAFF GETFANPQAD V

> RXA00420 (1-540, translated) 180 residues  
WTLNKLTLsA VGVAYYAMGA PAKNQVKNLt QFYQPLDLIG EWNRGYGSKG FLQYQFVVPT  
EAVEPFKDII RDMQKSGHYS ALNVFKLFGP GNRAPLSYPM PGWNVCVDfP IRPGLGAFLD  
DLDKRVMEFG GRlyLAKESR TSAENFHAMy PGMEGWLKTR NEIDPTGVFA SDMSRRLELS

> RXA00426 (1-522, translated) 174 residues  
MNSSHGTSSS GASAGAHGAL PLEAQKLNGW GRTAPTtAEV LTTPDLDIIV DAVRQVAEQN  
DSKPDYLKRG VIARGMGRSY GDPAQNAGGL VIDMQPLNKI HSIDPDSaIV DVDGGVTLdQ  
LMKAALPYGL WVPVLPgTRQ VTIGGAIGPD IHGKNHHSAG SFGDHVVSME LLVA

> RXA00435 (1-615, translated) 205 residues  
VDATTYAAYR PLRLDEWEAD IVMLDLGELG GPQISALIFR DTSMFPRlDR TVPLELPASS  
LPHGLLGgVP NLVRHLGNLD ENAPSVVEAM GEMAKFHKGL FEHLVESLEG LHAVHIVGIS  
GDAAGQDApF LDRVPRLTFT MEGVPADMVY RRLVDNRLIT TVSPADPLLE AMGVTEAGGS  
ITIGLSPFST YyEVDQLTRV LASLA

> RXA00437 (1-360, translated) 120 residues  
KNGVCTEAMG ALVTFEGIVR DHDGGARVTS LTYTAHPTAP QVLSAVADSI VEKHPRTRLW  
TAHRTGALKI GDAAFLVvAA SAHRADAFaa CSDLADAVKA QVPIWKEQTR LDGSTDWVGL

> RXA00438 (1-435, translated) 145 residues  
VKNLDIARYR RQIMLGEIGQ QKQQSLfDAK VSVIGAGGLG SPALLYLAGA GVGHIHIIDD  
DLVDLSNLHR QVIHTTAGVG TPKAESAREA MLALNPSVKV TVSVRRLDWS NALSELADSD  
VILDGSDNFD TRHLASWAAA KLGIP

> RXA00439 (1-195, translated) 65 residues  
TDGVRIEASV KTRGVtGVEM EALTAVSTAA LTVYDMIKAV DKMAVIDGIR VLSKTGGKSG  
DWSVQ

> RXA00440 (1-459, translated) 153 residues  
VTALVIVAST RAAAGVYEDR SGPILVSWLR AKGFDTPAPV IVADANLPaf LDELEFPQVV

LISGGTGLTP DDITVDTLIP RLDKEIPGIA HAFWNYSMDA VPTAVLSRTV AGTIGGSFIM  
ALPGSTGAAR DATAVLDPLI DHITGTLQGH HEH

> RXA00441 (1-792, translated) 264 residues  
IPATPQQQFI RLQGSDDITAG DEIIPAGTEL NSVHIGVLAS QSIKSIEVAA KPRVLIITGG  
SEISEQHGPA TIPDANGPLL RSLCARNNIE VIAGLHTNDD PERLRFELN AIDQYQPDVI  
ITSGGISHGK FEVFRQILEG TPNSWFGHVD QPQGGPQGIS TFAETPVISL PGNPISTLVS  
FTLLVAPALN RQPLRHLDAR ITAPVQQLQD NREQFLRGTI SYRNGPRPRH ASPGHQFPPA  
GSSCHRRSLD QDPGADYGGG KRHR

> RXA00442 (1-258, translated) 86 residues  
MSELTHVRAD GSAHMDVDTG KNETSRTAVA EGFVKMRGDV VKQLFSAGLP KGDALPVARI  
AGIMGAKKTP DIIPLCHPLP LGKITV

> RXA00446 (1-522, translated) 174 residues  
MEKVPNDVVV GLDEAYFEFN RADDTPVATE EIHRHDNVIG LRTFSKAYGL AGLRVGYAFG  
NAEIIAAMNK VAIPFAVNSA AQAAALASLN SADELMERVE ETVEKRDAVV SALGAAPTQA  
NFVWLPGEA AELAAKLAEH GIVIRAFPEG ARISVTNAEE TDKLLRAWEA INAG

> RXA00448 (1-666, translated) 222 residues  
YVGSHPMAGT ANSGWSASMD GLFKRAVWV TFDQLFDGTD INSTWISIWK DVVQMALAVG  
AEVVPSPRVGP HDAAAARVSH LTHILAECLA IVGDNGGALS LSLAAGSYRD STRVAGTDPG  
LVRAMCESNA GPLVKALDEA LAILHEAREG LTAEQPNIEQ LADNGYRSRI RYEARSQRR  
AKESVSPTIT SSRPVLRLHP GTPNWEKQLI HAETLGARIE VF

> RXA00450 (1-318, translated) 106 residues  
VGVLVPQARI KDDERRMRHA LDIARQTPEG DVPVGAVIYA PTGEILATAT NRREADRDPT  
AHAEIIALRR AARRFSDGWR LSDCTAVVTI EPCSMCAGAL VGARIG

> RXA00452 (1-246, translated) 82 residues  
VTTKDISRPV CILGLGLIGG SLLRDLHAAN HSVFGYNRSR SGAKSAVDEG FDVSADLEAT  
LQRAAAEDAL IVLAVPMTAI DS

> RXA00461 (1-852, translated) 284 residues  
VTAIKLDGNL YRGEIFADLE QRVAALKEKG IVPGLATVLV GDDPASHSYV KMKHRDCEQI  
GVNSIRKDLF ADVTQEELFA VIDELNNDSS CTGYIVQLPL PKHLDENAVL ERIDPAKDAD  
GLHPVNLGKL VLNEPAPLPC TPNGSISLLR RFGVELDGAK VVVIGRGVTV GRPIGLMLTR  
RSENSTVTLC HTGTDKLAEE TRAADVIAA AGQPHMLTAD MVKPGAVALD VGVSRKDGKL  
LGDVHPDVWE VAGAVSPNPG GVGPLTRAFL VHNVVERAEK LAGL

> RXA00465 (1-492, translated) 164 residues  
MTEDDLDLH RTVELATQAL KQGNTPYGS LVDPFQAVVF EDHNRDADGD LTKHPEFAIA  
KYAIENYSAS ERAACTVYTS TEHCAMCAGA HAWAGLGKIY CATTGGQTAA WYAKWGAESG  
PLNPISADKI SPNISIEGPA SRFEVLYEL HRWFYLGQSP NKAL

> RXA00487 (1-1386, translated) 462 residues  
VSLQTNHRPV LVVDFGAQYA QLIARRVREA GIYSEVIPHT ATADDVRAKN AAALVLSGGP  
SSVYAEAGPS LDEAILEDGL PVFGICYGFQ AMTHALGGTV ANTGKREYGR TDINVAGGVL  
HEGLEACHKV WMSHGDAVSE APEGFVVTA SEGAPVAAFE NKERKMAGVQ YHPEVLHSPH  
GQAVLTRFLT EIAGLEQNW T AANIAEELIE KVREQIGEDG RAICGLSGGV DSAVAGALVQ  
RAIGDRLTCV FVDHGLLRAG EREQVEKDFV AATGAKLTV DERQAFSLK AGVTEPEAKR  
KAIGAEFIRS FERAAGVLE EAPEGSTVDF LVQGTLYPDV VESGGGSGTA NIKSHHNVGG  
LPDDVEFKLV EPLRDLFKDE VRAVGRELGL PEEIVGRQPF PGPGLGIRII GEVTEDRLET  
LRHADLIART ELTEAGLDGV IWQCPVLLA DVRSVGQGD GR

> RXA00488 (1-534, translated) 178 residues  
QITAIMEAAV PAHKAGVPII ADGGMQFSGD IAKALAAGAN SVMLGSMLAG TAEAPGETIT  
INGKQYKRYR GMGSMGAMQG RGLSGEKRSY SKDRYFQSDV KSEDKLVPEG IEGRVPFRGP  
IGDIIHQVVG GLRAAMGYTG SSTIEELHNA RFVQITSAGL KESHPHHIQ TVEAPNYH

> RXA00489 (1-1122, translated) 374 residues

MRDHVEIGIG REARRTYSLD DISVVSSRRT RSSKDVDTTW HIDAYKFDLP FMNHPSDALA  
 SPEFVIEMGK QGGLGVINAE GLWGRHADLD EAIKAVIAAY EEGDQAAATR TLQELHAAPL  
 DTELLSERIA QVRDSGEIVA VRVSPQNVRE IAPIVIKAGA DLLVIQGTLI SAEHVNTGGE  
 ALNLKEFIGS LDVPVIAGGV NDYTTALHMM RTGAVGIIVG GGENTNSLAL GMEVSMATAI  
 ADVAAARRDY LDETGGRYVH IADGSIENS GDVVKAIACG ADAVVLGSPL ARAEEAAGKG  
 YFWPAVAHP RFPRGVVTE VDLDEAAPSL EQILHGPSTM PWGVENFEGG LKRALAKCGY  
 TDLKSFQKVS LHVN

> RXA00492 (1-474, translated) 158 residues  
 MTTQSRVSTG GDNPNKVALV GLTFDDVLLL PDASDVVPSE VDTSTQLTRN IRLNTPILSA  
 AMDTVTEAM AIGMARHGGI GVLHRNLSIQ EQAENVELVK RSESGMVTDP VTCTPDMSIQ  
 EVDDLCAFR ISGLPVVDEA GKLVGICTNR DMRFESDM

> RXA00533 (1-1032, translated) 344 residues  
 MTIAVVGAT GQVGQVMRTL LEERNFPADT VRFASPRSA GRKIEFRGTE IEVEDITQAT  
 EESLKDIDVA LFSAGGTASK QYAPLFAAAG ATVVNDSSAW RKDDEVPLIV SEVNPSDKDS  
 LVKGIIANPN CTTMAAMPVL KPLHDAAGLV KLHVSSYQAV SGSGLAGVET LAKQVAAGVD  
 HNVEFVHDGQ AADAGDVGPY VSPIAYNVLP FAGNLVDDGT FETDEEQKLK NESRKILGLP  
 DLKVSCTCVR VPVFTGHTLT IHAEFDKAIT VDQAQEILGA ASGVKLVDVP TPLAAAGIDE  
 SLVGRIRQDS TVDDNRGLVL VVSGDNLKRG AALNTIQIAE LLVK

> RXA00534 (1-1263, translated) 421 residues  
 VALVVQKYGG SSLESAERIR NVAERIVATK KAGNDVVVVC SAMGDTTDEL LELAAAVNPV  
 PPAREMDMLL TAGERISNAL VAMAIESLGA EAQSFTGSQA GVLTTTERHGN ARIVDVTGPR  
 VREALDEGKI CIVAGFQGVN KETRDVTTLG RGGSDTTAVA LAAALNADVC EIYSDVDGVY  
 TADPRIVPNA QKLEKLSFEE MLELAAVGSK ILVLSVEYA RAFNVPLRVR SSYSNDPGTL  
 IAGSMEDIPV EEAVLTGVAT DKSEAKVTVL GISDKPGEAA KVFRALADAE INIDMVLQNV  
 SSVEDGTTDI TFCPRSDGR RAMEILKKLQ VQGNWNTNLY DDQVGKVS LV GAGMKSHPGV  
 TAEFMEALRD VNVNIELIST SEIRISVLIR EDDLDAARA LHEQFQLGGE DEAVVYAGTG  
 R

> RXA00536 (1-1233, translated) 411 residues  
 MSPNDAFISA PAKIETPVGP RNEGQPAWNK QRGSSMPVNR YMPFEVEVED ISLPDRTPWD  
 KKITVAPQWC AVDLRDGNQA LIDPMSPERK RRMFELLVQM GFKEIEVGFP SASQTDFFDV  
 REIIEKGMIP DDVTIQVLVQ AREHLIRRTF EACEGAKNVI VHFYNSTSL QRVNVFRMDK  
 VQVKKLATDA AELIKTIAQD YPDTNWRWQY SPESFTGTEV EYAKEVDDAV VEVMDPTPEN  
 PMINLPSTV EMITPNVYAD SIEWMHRNLN RRDSIILSLH PHNDRGTGVG AAELGYMAGA  
 DRIEGCLFGN GERTGNVCLV TLALNMLTQG VDPQLDFTDI RQIRSTVEYC NQLRVPERHP  
 YGGDLVFTAF SGSHQDAVNK GLDAMAAKVQ PGASSTEVSUW EQLRDTWEV P

> RXA00537 (1-675, translated) 225 residues  
 VYHRAVLNAT SAATPFKQKN ANAGVLRIDE ETXRGVAISA DASGRYTKLE PNTGAQLALA  
 EAYRNVVSTG ARPVAVTNCL NFGSPENAGV MWQFKEAVHG LADGSKLLGI PVSGGNVSFY  
 NQTGDEPILP TPVVGVLGVL DNVEQSIGNV LPSEDNDLYL LGETFDEFEGG SIWQQVSGAG  
 LNGLPPVVDL LNEQRLADLF VGSDLFAASH DLSEGGGLGT LAELA

> RXA00541 (1-669, translated) 223 residues  
 VSAKIGVITF PGTLDDVDAA RAARIAGAEV ISLWHADEDL KGVDAVVVPG GFSYGDYLRT  
 GAISALAPVM QSVIEQAGKG MPVLGICNGF QILTEARLLP GALTRNKGLH FHCVDAHLVV  
 ENNTTAWTNT LEKGQILIP AKHGEGRFQA DAETIAQLEG EGRVVFRTD NFNGSVNDIA  
 GITNETGRIV GLMPHPEHAV EKLTPGSIDG LELFLSAVGT IAA

> RXA00557 (1-804, translated) 268 residues  
 LLSPYAWGLS RALLDSYVPN KFQTPAGEAK YTMSDHQDTT AEGVSYAAAG VDIEAGDRAV  
 ELFAPMAKRA TRPEVLGNLG GFAGLFELGK YKKPILAAGS DVGTKLVIA QMMDKHDTIG  
 IDLVAMCVDD LVVTGAEPFL QDYIAIGKV VPEHVAEIVS GIAEGCVQAG CALLGGETAE  
 HPGVMEPDHY DVSATAVGVV EADELLGPDR VRAGDVLIGM ASSGLHSNGY SLARHVLEK  
 AGLALDGHIE ELGRTPGEEL LEPTRMYA

> RXA00558 (1-441, translated) 147 residues  
 VVKKPAGIAV GDGEQILVFK DLGLVSQVFD QPIESLRGN IAIGHTRYTT AGGNTWENAG

PMFRMAPDGT DIALGHNGNL INYIELLDKA TELGLVDPK KPSD TDVLTG LLASGVHDGN  
NLFDSAKELL PSVKGAYCLT FTDGHTL

> RXA00561 (1-279, translated) 93 residues  
LFPDPPPIVH LTCLLSPASR IVVATNRGEE LEKRAAELGV PVFKLGCTND SAVIAVKGAD  
VEFTVSVEEL REAWTNTLPE AFGHAVGANA VVA

> RXA00579 (1-1860, translated) 620 residues  
MRVLIIDNYD SFTFNLATYV EEVTGQAPVV VPNDQEIDEM LFDVILSPG PGHAGVAADF  
GICAGVIERA RVPILGVCLG HQGIALAYGG DVDLAPRPVH GEVSQITHDG SGLFAGIPET  
FEAVRYHSMV ATRLPELSKA TATSDDGLIM ALAHEVLPQW GVQFHPESIG GQFGHQIKN  
FLNLARTYRW QLTEKTIPLS VDSAAVFET FAFSSSHAFWL DDAQGTSYLG DASGPLARTK  
THNVGEGDFF TWLKEDLAAN SVAPQGQFRL GWVG YVGYEL KAEAGARAAH TSSLPDAHLI  
FADRAIAVES DQVRLALGE QDEWFEETIK KLHNLVAPRI PASGHLALQV RDSKDEYLDK  
IRRAQELITR GESYEICLT KLQGT TDVAP LAAYLALRGA NPTAYGAYLQ LGDTSILSSS  
PERFITIDSA GYVESKPIKG TRPRGRTAQE DQEIIAELRS NPKDRAENLM ITDLVRNDLA  
RGALPTTVKT SKLFDVETYA TVHQLVSTVS AELGPRSPIE CVRAAFPGGS MTGAPKLRTM  
EIIDELEAAP RGIYSGGLGY FSLDGAVDLS MVIRTLVIQN NHVEYGVGGA LLALSDPEAE  
WEEIRVKSRL LLNLFGEVFP

> RXA00580 (1-1302, translated) 434 residues  
MTDAHQADDV RYQPLNELDP EVAAAIAGEL ARQRDTLEMI ASEN FVPRSV LQAQGSVLTN  
KYAEGYPGRR YYGGCEQVDI IEDLARDRAK ALFGAEFANV QPHSGAQANA AVLMTLAEPG  
DKIMGLSLAH GGH LTHGMKL NFSGKLYEVV AYGVDPETMR VDMDQVREIA LKEQPKVIA  
GWSAYPRHL DFEAFQSIAAE VGAKLWVDMA HFAGLVAAAGL HPSVPYSDV VSSTVHKTLG  
GPRSGIILAK QEYAKKLNS VFPQGQGGPL MHAVAAKATS LKIA GTEQFR DRQARTLEGA  
RILAE RL TAS DAKAAGVDVL TGGTDVHLVL ADLRNSQMDG QQAEDLLHEV GITVNRNAV  
FDPRPPMVT GLRIGTPALA TRGFDIPAFT EVADIIGTAL ANGKSADIES LRGRVAKLAA  
DYPLYEGLED WTIV

> RXA00581 (1-969, translated) 323 residues  
MAEQNAAST GVKPSRTPD FSPYLD FDR QWRELNSMP QVLTQKEVIE LRGIGENIDL  
AEVAEVYLP SRLIHLQVAA RQQLTAATET FLGTSPSISV PFVIGVAGSV AVGKSTTARL  
LQVLLQRWNS HPRVDLVTTD GFLYPGAELI RRG LMSRKGF PESYDQRALL RFVTDVKSGK  
LEVNA PVYSH TAYDRVPGEF TTVRQPDILI VEG LNVLTG PTLMVSDLFD FSVYVDARTE  
DIEKWIYDRF LKLRDTAFRR PGAHF SHYAD MADPESIAVA RELWQSINLP NLVENILPTR  
VRASLV LKKG SDHLVERVRM RKI

> RXA00584 (1-1125, translated) 375 residues  
MHSPERQEK SSPVSL ENAA STSNKR VVAF HELPSPTDLI AANPLTPKQA SKVEQDRQDI  
ADIFAGDDDR LVVVVGPCSV HDPEAAIDYA NRLAPLAKRL DQDLKIVMRV YFEKPRTVIG  
WKGLINDPHL NETYDIPEGL RIARKVLIDV VNLDLPVGCE FLEPNSPQYY ADTVAWGAI  
ARTTESQVHR QLASGMSMPI GFKNGTDGNI QVAVDAVQAA QNP HFFFGTS DDGALS VVET  
AGNSNSHIIL RGGTSGPNHD AASVEAVVEK LGENARLMID ASHANS GKDH IRQVEVVREI  
AEQISGGSEA VAGIMIESFL VGGAQNLDPA KLRINGGEGE VYGQSVTDKC IDIDTTIDLL  
AELAAAVRER RAAAK

> RXA00618 (1-534, translated) 178 residues  
MSFGRPLATA HQFSKNAIV GTLSKYFSMT GWRVGWIIVP DELVTPIENL QASLSLCAPA  
IGQAAGRAAF TLEAGAELDA HVEAYREARE VFVDKLPEIG LGTFADPDGG LYLWVDVSAY  
TDDSEEWALR LLDEAGVAVA PGVDFDPEEG HKWIRLSLCA SKEDTIEGVR KIGEFIKK

> RXA00619 (1-1428, translated) 476 residues  
VADKKKIANV LSNRYASAE SNLWSAE EKI IMERQLWIAV MKAQKDLGVE IPAEAI ESYE  
AVIDQVDLAS IADRERVTRH DVKARIEEFN ALAGHEHIHK GMTSRDLTEN VEQLQIHRSL  
ELVRNKGIAV VAAIGSRAAQ YQSLVMAGRS HNVAAQATTL GKR FATAADE MLVALERVTE  
LLNRYPLRGI KGPMGTAQDM LDLMEGDEAR LSDLETRIAA HLGFD R VFDS VGQVYPRSLD  
FDAVSALVQL GSGPSSLSHT IRLMAGTETV TEGFKEGQVG SSAMPHKMNA RSCERVGG LQ  
VILRGYLT MV ADLSGQQWNE GDVFCSVIRR VALPD AFFAI DGMFETFLT V LDEFGAFFAM  
IERELERYLP FLATTRILMA AVRAGVGRET AHEVIKENAV AVALNMRENG GDQDLIQRLA

ADERLPMSEA DLEAALADRH AFIGAAESQV SRVLDRIQVL VDAHPGAADY RPGEIL

> RXA00620 (1-891, translated) 297 residues  
MRPELSQYKH LSAGKVREIY EIDDKHILMV ASDRISAYDF ILDTTEIPDKG RVLTAAMSQFF  
FDTIDFPNHL AGPADDPRIP EEVLGRAMVC KKLNMPLPFEC VVRGYLTGSG LVEYKQTSSV  
CGVELPEGLV ESSQLPEPIF TPATKADIGD HDINVSFDVV EERLGEARAN QLRDASIAIY  
KAAAEIARDR GVILADTKFE FGIDEDGTLV LGDEVLTTPDS SRYWPLEGYE AGSVQPSFDK  
QFVRNWLTPG KSGWDKDSGL EPPALPGSVV EATRERYIEA YELISGQKFC QWIGSCV

> RXA00624 (1-687, translated) 229 residues  
MSGRLLVSVS SIFDQTRSAA DRLISDLRAD GIEVSLLVAP RIDGDWRLAK DKGTALWMEQ  
QRERGHELIL NGFDQAVQGR RSEFANLERH EARLRLTGAI RQMOKIGFEF QIFAPPRWRM  
SEGTFVLPE FDFNVAASR GLHNLDTGEF LACRNLSVGE GFGAAKWWRK NVIKAVTRGA  
EKGNTVRLSA SARLNTNPKV AADFREAALA ALDLGAQVQT YSQAQAQLA

> RXA00626 (1-780, translated) 260 residues  
DRAAARAHVD AVLEGGNPVL LESFLDGPV SLFFLVLDGET VVPLLPAQDH KRAYDNDEGP  
NTGGMGAYAP LPWLPEDGVQ RIVDEVCPV AREMVARGCA YSGLLYAGIA WGAEGPAVVE  
FNCRFGDPET QAVLALLKTP LAVLLNAVAT GTLAEQPALE WEDAYALTVV LASYNYPEAP  
RTGDVIRNAD ADNVLHAGTA LNAEGELVSA GGRVLNVIGV GETLEAARDN AYTITKIDIEL  
EGSHYRSDIA LAALEGRISI

> RXA00627 (1-285, translated) 95 residues  
MQMLDRVHRR RREGKDTLMF CAGQPSTGAP EAVIEEAEIA LRSGPLGYTE VIGDREFRER  
IADWHSATYD VDTNPDNVIV TTGSSGGFVA SFIAT

> RXA00629 (1-264, translated) 88 residues  
MRILVIGSGA REHALLRGLS TDPATTELHV APGNAGLCSI ATVHPGIKAD DPEAVTALAK  
ELNSDLVIG PEIPLVAGVA DALRAAGI

> RXA00632 (1-672, translated) 224 residues  
MPFLFVSGTG TGVGKTFSTA VLVRYLADQG HDVLPVKLVQ TGELPGEEDI FNIERLTGIA  
GEEFARFKDP LAPNLAARRE GVEPIQFDQI ISWLRGFDDP DRIIVVEGAG GLLVRLGEDF  
TLADVASALN APLVIVTSTG LGSLNAAELS VEAANRRGLT VLGVLGGSIP QNPDLATMLN  
LEEFERVITGV PFWGALPEGL SRVEGFVEKQ SFPALDAFKK PPAR

> RXA00633 (1-1269, translated) 423 residues  
MENPSLRELD HRNIWHYPYAA PGVRNRLVTK TDGVFLTLED GSTVIDAMSS WWSAIHGHGH  
PRLKAAAQKQ IDTMSHVMFG GLTHEPAIKL THKLLNLTGN SFDHVFYSDS GSVSVEVAIK  
MALQASKGQG HPERTKLLTW RSGYHGDTFT AMSVCDPENG MHSWLKGTLP EQIFAPAPPV  
RGSSPQAISE YLRSMELLID EAVSAIIEP IVQGAGGMRF HDVALIEGVA TLCKKHDRFL  
IVDEIATGFG RTGELFATLS NGLQPDIMCV GKALTGGFMS FAATLCTDKV AQLISTPENG  
GALMHGPTFM ANPLACAVSH ASLEIETGM WQKQVKRIEA ELIAGLSPLQ HLPGVADVRV  
LGAIGVIEME QNVNVEEATQ AALDHGVWIR PFGRLLYVMP PYITTSEQCA QICTALHAAV  
KGK

> RXA00688 (1-543, translated) 181 residues  
MRLVLLGPPG AGKGTQAAIL SEKLGIPIHIS TGDIFRANIG EGTPLGIEAK QYIDAGKLVP  
TDVTARMVAS RLAESDAAEG FLLDGFPRTV EQADILANLL SEAGQTLGTV VNYQVSEDVV  
VERMLSRGRA DDNEETIRTR LGVYRDETAP LIDHYGDKII NIEAEGEEVEE INARTLKALG  
K

> RXA00708 (1-672, translated) 224 residues  
TVGKAVRESG VPREEIVTS KLPGRFHARD LGRVRIEESL YRLNLDYIDL LLIHWPNPSPK  
DLYVEAWETL IEVRDAGLVK HIGVSNFLPN HIDRLRRETG ELPVAVNQIEL HPYFPQVEQV  
DFHDELGIIT EAWSPLSNGR GLVEEPLIKE IGERYGVGSG EIALAWHHAR GIVPIPRSTN  
PARQRSNLEA VKISLIDEDV QAITALARKN GRIKDQDPV YEEF

> RXA00717 (1-960, translated) 320 residues  
VTPPARRDGT PDKKQSNRSG GYRSSVRGYK PGSSRPNTRQ QPQKKDEILL SNAKPAKKQN

VKSDDDWSMG FLNRNDSGVL RLQKVLAQAG VASRRHAEIL IDQGRVEVND RIVTTQGVVRV  
DPNNDVIRVD GVRIHINEDL EYFVLNKPRG MHSTMSDELG RPCVGDVSE KTASGQRLFH  
VGRLDADTEG LLLLTNDGEL ANRLMHPKYE VSKTYLATVR GEATNKLVS LRDGVELEDG  
PAKADFAQII DVFQGKSLR IEIHEGRKHI VRRLFDELGF PVERLVR TKL HTVQLGDQKP  
GSLRALNSSE LTSLYKVVQL

> RXA00718 (1-708, translated) 236 residues  
VTEISNMPAG GLIVAIDGPS GTGKSTTSRA LATRLSAKYL DTGAMYRVAT LHVLNQGIDP  
ADSAAVIAAT AVLPLSISDD PASTEVLLAG VDVQKDIRGP EVTQNVSAVS AIPEVRENLV  
ALQRALAACA HRCVVEGRDI GTAVLVD API KAFLTASAEV RAQRRFDQDT AAGRVDVFDA  
VLADVVRDE LDSTRAASPL KPADDAHIVD TSDMTMDQVL DHLIHLVEAS AERSNQ

> RXA00727 (1-912, translated) 304 residues  
LRFKPKIPKRA VAATVGIVAT SFTLASCVTN EEQGNPDGWE QIVPDPVPEI QAMVPEALAQ  
RGVLTAGANP PFPPFEFKDS DGQIIGVEMD LVRAMAGVMG LEFSPQEQDF SLILPSVQAG  
TLDIGASGFT DNEERRENF D FIDFLFAGVQ WAQATDRETP IDPENACGLT VAVQRTVAE  
TDDVRPRSAQ CEAEKGEPIT ILSYETADTA ATALILGRAD ALAADSPVSA WAAERSEGR I  
EVVGDMYLA PFGFAFPLES DLTPAAAAAF QHLIDTGDYQ RIMAQWGIEE GLLDEALINE  
QPLN

> RXA00766 (1-843, translated) 281 residues  
MVFWDDAALT RGDGIFETLL IRDGHACNVR RHGERFKASA ALLGLPEPIL EDWEKATQMG  
IESWYSHRNA GEASCTWTLS RGRSSTGLS GWLTITPVSS DKLAQREHGV SVMTSSRGYS  
IDTGLPGIGK ATRGELSKVE RTPAPWLTG AKTLAYAANM AALRYAKSNG FDDVIFTDGD  
RVLEGATSTV VSFKGDKIRT PSPGGDILPG TTQAALFAHA TEKGWRCKEK DLSIDDLFGA  
DSVWLVS SVR GPVRVTRLDG HKLRKPDNEK EIKALITKAL G

> RXA00770 (1-315, translated) 105 residues  
VTGGGLAGNL ERVVEGLVA EMSRATWTPG QIFRTISSVG KVSREEMEKT FNMGVGMVAV  
VAEKDRDRAL AMLTARHIDC WEIGTVRNGE EGEPRVILNG EHPGY

> RXA00779 (1-933, translated) 311 residues  
MGNVYNNITE TIGHTPLVKL NKLTEGLDAT VLVKLESFNP ANSVKDRIGL AIVEDAEKSG  
ALKPGGTIVE ATSGNTGIAL AMVGAAARGYN VVLTMPETMS NERRVLLRAY GAEIVLTPGA  
AGMQGAKDKA DEIVAERENA VLARQFENEA NPRVNRDTTA KEILEDTDGT VDIFVASFGT  
GGTVTGVGQV LKENNADVQV YTVEPEASPL LTAGKAGPHK IQGIGANFIP EVLDRKVLDD  
VLTVSNEAI AFSRK LATEE GILGGISTGA NIKAAALDLAA KPENAGKTIV TVVTDFGER Y  
VSTVLYEDIR D

> RXA00780 (1-546, translated) 182 residues  
MIREDLANAR EHDPAARGDL ENAVVYSLH AIWAHRVANS WWKSGFRGPA RVLAQFTRFL  
TGIEIHPGAT IGRRFFIDHG MGIVIGETAE IGEVMLYHG VTLGGQVLTQ TKRHPTLCDN  
VTVGAGAKIL GPITIGESGA IGANAVVTKD VPAEHIAVGI PAVARPRGKT EKIKLVDPDY  
YI

> RXA00838 (1-900, translated) 300 residues  
MKIAIVGAGA VGGYFGALLQ ESGADITMVA RGR TLEALKS KGLHINDARG ERYVPIPAVA  
SVQELK DADV VMIATKALSR SLDLAELLGG IPANSVVAIT QNSIESADLA AKSIGADRVW  
PGVVRGFFVH EGPASVSYKG GPLSYTFGDS GELSRQFAST LEQAGIDGVL HPDILVDVWE  
KAMFVEVFGG LGAFVEKQLG TLRTHFRASL EALMEEVAEV ARAAGVALPS DAVERTMNFA  
DRMPENSTSS MQRDLAAGVA SELEAQTGAI VRAAHKVGK TPLHDLIYAG LKLKEEENSL

> RXA00863 (1-744, translated) 248 residues  
MGIVGV LGA KGRVGQTIVA AVNESDDLEL VAEIGVDDDL SLLVDNGAEV VVDFTTPNAV  
MGNLEFCINN GISAVVGTTG FDDARLEQVR DWLEGKDNVG VLIAPNFAIS AVLTMVFSKQ  
AARFFESA EV IELHHPNKLD APSGTAIHTA QGIAAARKEA GMDAQPDAT QALEGSRGAS  
VDGIPVHAVR MSGMVAHEQV IFGTQGQTLT IKQDSYDRNS FAPGVLVGVR NIAQHPGLVV  
GLEHYLGL

> RXA00864 (1-750, translated) 250 residues  
VAEQVKLSVE LIACSSFTPP ADV EWSTDVE GAEALVEFAG RACYETFDKP NPRTASNAAY

LRHIMEVGHT ALLEHANATM YIRGISRSAT HELVRHRHFS FSQLSQRFVH SGSEVVVPT  
 LIDEDPQLRE LFMHAMDESR FAFNELLNAL EEKLGDEPNA LLRKKQARQA ARAVLPNATE  
 SRIVVSGNFR TWRHFIGMRA SEHADVEIRE VAVECLRKLO VAAPTVEGDF EIETLADGSQ  
 MATSPYVMDP

> RXA00865 (1-903, translated) 301 residues  
 MSTGLTAKTG VEHFGTVGVA MVTPFTESGD IDIAAGREVA AYLVDKGLDS LVLAGTTGES  
 PTTTAAEKLE LLKAVREEVG DRAKLIAGVG TNNTRTSVEL AEAASAGAD GLLVVTPYYS  
 KPSQEGLLAH FGAIAATEV PICLYDIPGR SGIPIESDTM RRLSELPTIL AVKDAKGLV  
 AATSLIKETG LAWYSGDDPL NLVWLALGGS GFISVIGHAA PTALRELYTS FEEGDLVRAR  
 EINAKLSPLV AAQGRLLGVS LAKAALRLQG INVGDPRPLI MAPNEQELEA LREDMCKAGV  
 L

> RXA00867 (1-627, translated) 209 residues  
 FGDMDFKVAG TADFITALQL DTKLDGIPSK VLSDALEQAR DARLTILNTM ADVINGPDEM  
 SKFAPRITTV KIPVAKIGEL IGPKGKNINA LTEETGANIS IEDDGTVFIS AADGASAEAA  
 IEKINALANP QLPKVGERFL GTVVKTAFG AFVSLLPGRD GLVHISKLGK GKRVEKVDDV  
 VKVGEKIQVE IADIDNRGKI SLVPVVEED

> RXA00873 (1-756, translated) 252 residues  
 TAQWGIPLRN HDELTLEMVS DEERSYMSQ FASEPRMRAN VGIRRRLSPL LEGDRNQLEL  
 LHGLLSLPG SPVLYYGDEI GMDGNIWLHD RDGVRTPMQW SNDRNGGFSK ADPERLYLPA  
 IQNDQYGYAQ VNVESQLNRE NSLLRWLRNQ ILIRKQYRAF GAGTYREVSS TNESVLTLFLR  
 EHKGQTILCV NMMSKYPQAV SLDLREFAGH TPREMSSGQL FPTIAEREWI VTLAPHGFFW  
 FDLTADEKDD ME

> RXA00884 (1-1140, translated) 380 residues  
 MSVFGVYIHV PFCSTRCGYC DFNTYTAGEL GSTAGPDTYL DSLEVELEMA VASLDNPRQA  
 ETIFIGGGTP SLIGADGLAR VLGAVERNTEG IADGAEVTTT SNPESTSPEF FDGLREAGYN  
 RISLGMQSAS SSVLKVLDRD HTPGRPVAAA KEAREAGFEH VNLDMIYGTP TETDDDVRKT  
 LNAVLEANDV HVSAYSLIVK DGTAMARKVH KGELPAPDED VYADRFELID ARLRSAGFDW  
 YEVSNWAKPG GECKHNMGYW VDGDDWWGAGP GAHSHIGDRR FYNIKHPARY SAQIAAGELP  
 IKETERLTAE DHHTERVMLG LRLKQGVPLN LFAPAARPVI DRHIAGGLLH VNALGNLAVT  
 DAGRLADGI IADILLSEED

> RXA00891 (1-1002, translated) 334 residues  
 VLQTSWHFSI LAGMTDTSPL NSQPSADHHP DHAARPVLDA HGLIVEHESE EFPVPAPAPG  
 EQPWEKKNRE WYKDAVFYEV LVRAFYDPEG NGVGSLLKGLT EKLDYIQWLK VDCIWIPPFY  
 DSPLRDGGYD IRNFREILPE FGTVDDEFVEL VDHARRGLR VITDLVMNHT SDQHAWFQES  
 RRDPTGPYGD FYVWSDDPTL YNEARIIFVD TEESNWTYDP VRGQYFWHRF FSHQPDLYND  
 NPAVQEAMLD VLRFWLDLGL DGFRLDAVPY LFEREGTNGE NLKETHDFLK LCRSVIEKEY  
 PGRILLAEAN QWPQDVVEYF GEKDKGDECH MAFH

> RXA00952 (1-840, translated) 280 residues  
 MSRYDDLAFR LDTAGEGAFV PFIMLSDPSP EEAQFIISTA IEAGADALEL GVPFSDPVAD  
 GPTVAESHLR ALDGGATVDS ALEQIKRVRA AYPEVPIGML IYGNVPFTRG LDRFYQEFAR  
 AGADSILLPD VPVREGAPFS AAAAAAGIDP IYIAPANASE KTLEGVSAAS KGYIYAIIRD  
 GVTGTERESS TDGLSAVVDN IKKFDGAPIL LGFGISSPQH VADAIAAGAS GAITGSAITK  
 IIASHCEGEH PNPSTIRDMD GLKKDLTEFI SAMKAATKKV

> RXA00954 (1-588, translated) 196 residues  
 FLFAPAYNPA IAHVQPVQQA LKFPTIFNTL GPLLSPARPE RQIMGVANAN HGQLIAEVFR  
 ELGRTRALVV HGAGTDEIAV HGTTLVWELK EDGTIEHYTI EPEDLGLGRY TLEDLVGGGL  
 TENAEAMRAT FAGTGPDAGR DALAASAGAM FYLNGDVDSL KDGAQKALSL LADGTTQAWL  
 AKHEEIDYSE KESSND

> RXA00955 (1-1422, translated) 474 residues  
 MTSNNLPTVL ESIVEGRRGH LEEIRARIAH VDVALPKST RSLFDSLNGG RGGARFIMEC  
 KSASPSLGM IREHYQGEAI RVYSRYASGI SVLCEPDRFG GDYDHLATVA ATSHLPVLCK  
 DFIIIDPVQVH AARYFGADAI LLMLSVLDDE EYAALAAEAA RFDLDILTEV IDEEEVARAI  
 KLGAKIFGVN HRNLHDLSD LDRSRRLSKL IPADAVLVSE SGVRDTETVR QLGGHSNAFL



VGSQLTSQEN VDLAARELVY GPNKVCGLTS PSAAQTARAA GAVYGGLIFE EASPRNVSRE  
 TLQKIIAAEP NLRYVAVSRR TSGYKDLLVD GIFAVQIHAP LQDSVEAEKA LIAAVREEVG  
 PQVQVWRAIS MSSPLGAEVA AAVEGDVDKL ILDAHEGGSG EVFDWATVPA AVKAKSLLAG  
 GISPDNAAQA LAVGCAGLDI NSGVEYPAGA GTWAGAKDAG ALLKILATIS TFHY

> RXA00956 (1-1131, translated) 377 residues  
 MTEKENLGGS TLLPAYFGEF GGQFVAESLL PALDQLEKAF VDATNSPEFR EELGGYLRDY  
 LGRPTPLTEC SNLPLAGEGK GFARIFLKRE DLVHGGAHKT NQVIGQVLLA KRMGKTRIIA  
 ETGAGQHGTALACALMGL ECVVYMGAKD VARQQPNVYR MQLHGAKVIP VESGSGTLKD  
 AVNEALRDWT ATFHESHYLL GTPAGPHFP TIVREFHKVI SEEAKAQMLE RTGKLPDVVV  
 ACVGGGSNAI GMFADFIDDE GVELVGAEP A GEGLD SGKHG ATITNGQIGI LHGTRSYLMR  
 NSDGQVEESY SISAGLDYPG VGPQHAHLHA TGRATYVGIT DAEALQAFQY LARYEGIIPA  
 LESSHAFAYA LKRAKTA

> RXA00957 (1-1128, translated) 376 residues  
 DFLETFTLP AVEESVNTYP DYQFVLAIEV LDINHQQDTA KLAGVSNAPG ELEAEELNKLK  
 LLIDAALPAT EHAYQTTPHD GDTLRVVADI PDAQFRTQIN ELKENIYNGD IYQVVPARTF  
 TAPCPDAFAA YLQLRATNPS PYMFYIRGLN EGRSYELFGA SPESNLKFTA ANRELQLYPI  
 AGTRPRGLNP DGSINDELDI RNELDMRTDA KEIAEHTMLV DLARNDLARV SVPASRRVAD  
 LLQVDRYSRV MHLVSRVTAT LDPELDALDA YRACMNMGTG TGAPKLRAME LLRGVEKRRR  
 GSYGGAVGYL RGNGMDMNCI VIRSAFVQDG VAAVQAGAGV VRDSNPQSEA DETLHKAYAV  
 LNAIALAAGS TLEVIR

> RXA00958 (1-624, translated) 208 residues  
 MTHVVLIDNH DSFVYNLVDA FAVAGYKCTV FRNTVPVETI LAANPDLICL SPGPGYPADA  
 GNMMALIERT LGQIPLLGIC LGYQALIEYH GGKVEPCGPV HGTDDNMILT DAGVQSPVFA  
 GLATDVEPDH PEIPGRKVPI GRYHSLGCVV APDGIESLGT CSSEIGDVIM AARTTDGKAI  
 GLQFHPESVL SPTGPVILSR CVEQLLAN

> RXA00970 (1-927, translated) 309 residues  
 MAIELNVGRK VTVTVPGSSA NLGPGFDTLG LALSVYDTVE VEIIPSGLEV EVFGEQGEV  
 PLDGSHLVVK AIRAGLKAAD AEVPGLRVVC HNNIPQSRGL GSSAAAAGV VAAANGLADF  
 PLTQEQIVQL SSAFEGHPDN AAASVLGGAV VSWTNLSIDG KSQPQYAAVP LEVQDNIRAT  
 ALVPNFHAST EAVRRVLPTE VTHIDARENV SRVAVMIVAL QQRPDLLWEG TRDRLHQPYR  
 AEVLPITSEW VNRLNRNGYA AYLSGAGPTA MVLSTEPIPD KVLEDARESG IKVLELEVAG  
 PVKVEVNQP

> RXA00972 (1-1377, translated) 459 residues  
 PAPGWRFRGT EDVTMATVEN FNELPAHVWP RNAVRQEDGV VTVAGVPLPD LAEEYGTPLF  
 VVEDDDFRSR CRDMATAFGG PGNVHYASKA FLTCTIARWV DEEGLALDIA SINELGIALA  
 AGFPASRITA HGNNKGVEFL RALVQNGVGH VVLDSAQELE LLDYVAAGEG KIQDVLRVK  
 PGIEAHTHEF IATSHEDQKF GFSLASGSF EAKAANNAE NLNLVGLHCH VGSQVFDAEG  
 FKLAAERVLG LYSQIHSELG VALPELDLGG GYGIAYTAAE EPLNVAEVAS DLLTAVGKMA  
 AELGIDAPTV LVEPGRAIAG PSTVTIYEVG TTKDVHVDDD KTRRYIAVDG GMSDNIRPAL  
 YGSEYDARVV SRFAEGDPVS TRIVGSHCES GDILINDEIY PSDITSGDFL ALAATGAYCY  
 AMSSRYNAFT RPAVSVVRAG SSRLMLRRET LDDILSLEA

> RXA00974 (1-393, translated) 131 residues  
 MTSASAPSFN PGKPGPSAVG IALLGFGTVG TEVMRLMTEY GDELAHRIGG PLEVREGIAVS  
 DISKPREGVA PELLTEDAFA LIEREDVDIV VEVIGGIEYP REVVLAALKA GKSVV TANKA  
 LVAHSAELA D

> RXA00981 (1-630, translated) 210 residues  
 MSENLPAPEN LLDAERIQMI KNFRNELTGF MLNYQFGIDE ILTKINILKT EFSQLHEYAP  
 IEHVSSRLKT PESIVKKVIR KGDELSLAAI KDTVFDIAGI RIVCSFLKDA YAIADMLTNQ  
 KDVTVIEAKD YIANPKPNGY KSLHLILQVP VFLSNSVEKV NVEVQIRTIA MDFWASLEHK  
 IYYKFEQEVQ QSILDELSED GKNPRGSEVT

> RXA00989 (1-1533, translated) 511 residues  
 GIGLVANNDG IFDSENDIT VGDVTLGETG LSLPIDLAGE VEAPASEEIT QEDLLRLAQV  
 EAELDQRWLE TKIDPTFRM SYMMDLMGQP QNSFPAIHVA GTNGKTSTTR MIESLLRAFH

RRTGRTTSPH LQLVTERIAI DGKPIHPRDF VRIYEEIKPY MEMTDAWSEA EGGPKMSKFE  
ALVALAYAGF ADAPVDVAVV EVGLGGRWDA TNVINAASVS ITPVGMHDVD RLNGTIGEIA  
GEKAGIIKAR PASEDGTEPE GNVVIVGKQE PEAMNVILQQ AVDVDAAVAR LNMEFGVVES  
AIAVGGQQLT LKGLGGEYTD IFLPLSGAHQ ADNAVALAA VEAFFGASAG RPLDIDTVRE  
GFAQVQSPGR LERLRSAPT V FIDAAHNPFG AAAALGAALDR DFEFRRLIGV IGVLCDDKAR  
GILESLEPYL HEIVCTQTAS ERALDAYDLA EYAREIYGDE RVHVQEDLAG AVELAIELAE  
DTDVQSGSGV VITGSIVTAG DARTLFGKEP A

> RXA00997 (1-582, translated) 194 residues  
MTTWKELTDN NPAHSENYAQ RWRNLAAAGN DIYGEARLID AMAPRGAKIL DAGCGQGRIG  
GYLSKQGHVD LGTDLDPLI DYAKQDFPEA RWVVGDLSD QISETDFDLI VSAGNVMGFL  
AEDGREPALA NIHRALGADG RAVIGFGAGR GWVFGDFLEV AERVGLELEN AFESWDLKPF  
VQGSEFLVAV FTKK

> RXA01009 (1-1230, translated) 410 residues  
LALKGYTNFD GEFIEFGSVQ AKEEEKRAFD NDRAHVHFSW SAQDKISPKV WAAAEGSTLY  
DFDGNFIDM GSQLVSANLG HNNPRLVEAI QRQAARLTNI NPAFGNDVRS DVAAKIVSMA  
RGEFHVFFT NGGADAIHS IRMARLHTGR NKILSAYRSY HGATGSAMML TGEHRRLGNP  
TTDPDIYHFW APFLHSSFF ATTQEEECER ALKHLEDVIA FEGAGMIAAI VLEPVVGSSG  
IILPPAGYLN GVRELCNKHG ILFIADVMV GFGRTGKLFA YEHAGDDFQP DMITFAKGVN  
AGYAPLGGIV MTQSIRDTEG SEAYSGGLTY SGHPLAVAPA KAALEIYAEG EIIPRVARLG  
AELIEPRLRE LAENVAIAD VRGIGFFWAV EFNADATAMA AGAAEFKERG

> RXA01019 (1-990, translated) 330 residues  
TLAHSLSFPD SLRDGPTVGD LGEFEVIRVI TEQAGSSLNG DDAAVLRHAS PNSRAVVTTD  
MLVAGRHFQL DWSTPEQIGQ KAIVQNFADI EAMGARPVAA LLAISAPHT PVEFVRGLAR  
GMNQRLLEYS AELVGGDITS GDLSVIAVTA IGQLGGSLE LTLGRARPGQ TLVAHGKIGY  
SAAGLALLQH FGPDNVPEHL RPLVDAHCA VLTTPGRGMVA RAAGATAMTD NSDGLIVDLN  
QMAMKSGVRI DVDSCSISP ELLSEAASVL GTDAWRWILS GGEDHTLLST TFGDAPSGFR  
TIGQVTKTRH EDLVTVDKKT PAFSDGWRSE

> RXA01024 (1-657, translated) 219 residues  
MANKNNKPHE VDKDQDSAML INGRLOQIPA RPTTEFTRPT LAAGAVLWRG DITNPDSEIV  
AVIHRPHYDD WSLAKGKVD GESIPTTAAR EILEETGYDI RLKGLIGKVT YPVLDRTKVV  
YYWTAQVLGG EFVPNDEVDE IRWLSVDEAC ELLSYQVDTE VLAKAAKRFR TPSTTRVLYV  
RHAHAHGRQT WGGDDNKRPL DKKGRQAEM LVPMLLPFK

> RXA01026 (1-1602, translated) 534 residues  
VWRDHVVSKE ENGEPLLII DLQLLHEVTS PQAFDGLRMT GRKLRHPELH LATEDHNVPT  
EGIKTGSLE INDKISRLQV STLRDNCEEF GVRLHPMGDV RQGIHVTVGP QLQATQPGMT  
IVCGDSHTST HGAFGSMAFG IGTSEVEHVM ATQTLPLKPF KTMAIEVTGE LQPGVSSKDL  
ILAIIAKIGT GGGQGYVLEY RGEAIRKMSM DARMTMCNMS IEAGARAGMI APDQTTFDYV  
EGREMAPKGA DWDEAVAYWK TLPTDEGAT DKVVEIDGSA LTPFITWGTN PGQGLPLGES  
VSPEDFTND NDKAAAEKAL QYMDLVPGTP LRDIKIDTVF LGSCTNARIE DLQIAADILK  
GHKIADGMRM MVVPSSTWIK QEAEALGLDK IFTDAGAEWR TAGCSMCLGM NPDQLKPGER  
SAFTSNRNFE GRQGPGRTH LVSPAVAAAT ESADPVLTCR YLRKARKQWK NLPPTPALAF  
HCSDPWTPT RSSQPSTSSA SPGPASKTDC FPTGAKTTPT LSSTPTPTRT APFS

> RXA01027 (1-234, translated) 78 residues  
TDPEACKKRF TDVVAQGGVP MIVGQGDII EMIKWFSNG TLPIDEKIKI KKGSVWVLSF  
HDGVFTGADY LASSLPVK

> RXA01073 (1-831, translated) 277 residues  
MTNTQTEIIN ELKVSPAIDV AKEVEFRVQF LVDYLRASHT KGFVLGISGG QDSTLAGRLT  
QLAVERIRAE ENSTDYVFYA VRLPYAIQAD EDDAQVALEF IAPDKSVTVN VKDATDATEA  
TVAAALELPE LTDFNRGNIK ARQRMVAQYA IAGQLGLLVI GTDHAAENV GFFTKFGDGA  
ADLLPLAGLS KRQGAILEH LGAPSSTWTK VPTADLEEDR PALPDEEALG VSYADIDNYL  
ENKPDVSEKA QQRIEHLWKV QGHKRHLPAT PQENWWR

> RXA01079 (1-690, translated) 230 residues  
MDFHALNALL NLYDDNGKIQ FEKDREANQ YFLQHVNQNT VFFHNLQEKI DYLVENKYYD

PIVLDKYDFQ FIKDLFKRAY GFKFRFQSFL GAYKYYTSYT LKTFDGRRYL ERFEDRVCMV  
ALTLADGDRA LAENLVDEIM SGRFQPATPT FLNSGKAQRG EPVSCFLLRI EDNMESIGRS  
INSALQLSKR GGGVALLLSN LREAGAPIKK IEIQSSGVIP VMKLLEDAFS

> RXA01080 (1-444, translated) 148 residues  
MLIVYFSSAT DNTHRFVQKL DLPNVRIPLT RVEEPLKINE PYVLITPTYG GGVSMTGENS  
RPVPPQVIRF LNDEHNRSFI RAVVAGGNSN FGSDFGLAGE IISKCKVPY VYRFELMGNE  
EDVSILRGGL TQNAQALGLE PQEPVTSR

> RXA01084 (1-1341, translated) 447 residues  
SFLDTKRENA DEKIRIKTLS LGVVIPDITF ELAKRNDDMY LFSPYDVERI YGKPFADVSI  
TEHYDEMVD DRIKTKINA RQFFQTLAEI QFESGYPYIM YEDTVNASNP IEGRITHSNL  
CSEILQVSTP SEFNDDLTYA EVGEDISCNL GSLNVAMAMD APNFEKTXET EIRGLTAVXE  
QTSIDSVPSI RKGNEAAHAI GLGQMNHLGY FGREHMHYGS EEALDFTNAY FAAVLYQCLR  
ASNQIATERG ERFKNFENSK YATGEYFDDF DANDFAPKSD KVKELFAKSN IHTPTVEDWA  
ALKADVMEHG LFNRLQAVP PTGSISYINN STSSIHPIAS KIEIRKEGKI GRVYYPAPHM  
DNDNLEYFED AYEIGYEKII DTYAVATKYV DQGLSLTLFF KDTATTRDIN RAQIYAWRKG  
IKTLYYIRLR QVALEGTEVD GCVSCML

> RXA01087 (1-876, translated) 292 residues  
MQTLAAIVRA TKQPFIEITI DLDAPRPDEV QIRVIAAGVR HTDAIVRDQI YPTFLPAVFG  
HEGAGVVAV GSAVTSVKPD DKVVLGFNSC GQCLKCLGGK PAYCEKFYDR NFACTRDAGH  
TTLFTRATKE QAEAIIDTLD DVFYDADAGF LAYPATPPEA SGVSVLVVAA GTSDLPQAKE  
ALHTASYLGR STSLIVDFGV AGIHRLLSYE EELRAAGVLI VAAGMDGALP GVVAGLV SAP  
VVALPTSVGY GAGAGGIAPL LTMLNACAPG VGVVNIDNGY GAGHLAAQIA AR

> RXA01095 (1-783, translated) 261 residues  
MVATENRMLM EIAAEISARE ATLGFEQVKT KRSRAGLTAA FDIASVFFSS GCNVVVAFDR  
FASNWDHSD HVDYAAQVAG FGASMLAYTV RRGQFDTAVR DIRDIKSEVD IPILLHDPII  
DPYQIHEARV MGIDALQFPV WAMEQARLES LVDRTESLGM TAIVSVRNHE EAHRAVDAGA  
TVVAIDITGY TGSLLTPEAF SGITQFMPKE VARIVLGGCS SPKELMR FAR HSADAIFVPH  
ADLATTKSLV TAGMHPACPS R

> RXA01097 (1-354, translated) 118 residues  
MSDNPQEYEL DWDVEKRLKL NDAGLVPAIV QADGTNEVLM MAWMDTHALA YTLATTRGTY  
FSRSRNEYWI KGLTSGNVQE VTGLALDCDG DTVLLTVKQT GGACHTGAHT CFDNDVLL

> RXA01098 (1-774, translated) 258 residues  
MGVAIRVIP LDVDNGRVVK GVN FENLRDA GDPVELAKRY DEEGADELTF LDVTASKHGR  
GTMLDVVVRT ADQVFIPLTV GGGVRSEEDV DQLLRAGADK VSVNTSAIAR PELLSELSKR  
FGAQCIIVLS DARRVPEGGT PQPSGFEVTT HGGSKSAELD AIEWAKR GEE LGVGEILLNS  
MDGDGTKNGF DLELLEKVR A VSIPVIASG GAGKAEHFPP AVAAGANAVL AATIFHFREV  
TIAEVKGAIK DAGFEVRK

> RXA01100 (1-738, translated) 246 residues  
MTFTILPAVD VVNGQAVRLD QGEAGTEKSY GTPLESALKW QEQGA KWLHF VDLDAAFN RG  
SNHEMMAEIV GKLDVDVELT GGIRDDESLE RALATGARRV NIGTAALEKP EWIASAIQRY  
GEKIAVDIAV RLEDGEWRTR GNGWVSDGGD LWEVLERLDS QGCARFV VTD VSKDGTLSGP  
NVELLREVAA ATDAPIVASG GISVLEDVLE LAKYQDEGID SVIIGKALYE HKFTLEEALA  
AVEKLG

> RXA01101 (1-633, translated) 211 residues  
MTKTVALLDY GSGNLRSAQR ALERAGAEVI VSSDPEVCTN ADGLLVPGVG AFDACMKGLK  
NVFGHRIIGQ RLAGGRPVMG ICVGMQILFD EGDEHGIKSA GCGEWP GKVE RLQAEILPHM  
GWNTLEMP TN SPMFEGISPD ERFYFVHSYG VRKWTLETDD LTTPPEVVWA KHENDRFVAA  
VENGT LWATQ FHPEKSGDAG AQLLRNWINY I

> RXA01104 (1-606, translated) 202 residues  
MTVAPRIGTA TRTTSESDIT VEINLDGTGK VDIDTGLPFF DHMLTAFGVH GSFDLKVHAK  
GDIEIDAHT VEDTAIVLGQ ALLDAIGDKK GIRRFASCQL PMDEALVESV VDISGRPYFV  
ISGEPDHMIT SVIGGHYATV INEHFFETLA LNSRITLHVI CHYGRDPHHI TEAEYKAVAR

ALRGAVEMDP RQTGIPSTKG AL

&gt; RXA01105 (1-1098, translated) 366 residues

MTKITLSLDP LREELRGEHA YGAPQLNVDI RLNTNENPYP PSEALVADLV ATVDKIATEL  
NRYPERDAVE LRDELAAYIT KQTGVAVTRD NLWAANGSNE ILQQLLQAFG GPGR TALGFQ  
PSYMHPIA KGTHTEFIAV SRGADFRIDM DVALEEIRAK QPDIVFVTPP NNPTGDVTSI  
DDVERIINVA PGIVIVDEAY AEFSPSPSAT TLLEKYPTKL VVSRTMSKAF DFAGGRLGYF  
VANPAFIDAV MLVRLPYHLS ALSQAAAIVA LRHSADTLGT VEKLSVERVR VAARLEELGY  
AVVPSESNFV FFGDFSDQHA AWQAFLDRGV LIRDVGIAGH LRTTIGVPEE NDAFLDAAAE  
IIKLNL

&gt; RXA01106 (1-1326, translated) 442 residues

MLNVTDLRGQ TPSKSDIRRA LPRGGTDVWS VLPVQPVVE DVQNRGAEEA LDYGEKFDHI  
RPASVRVPAE VIAAAENTLD PLVRESIEES IRRVRKVHAE QKPSEHTTEL SPGGTVTERF  
MPIDRVGLYV PGGNAVYPSS VIMNTVPAQE AGVNSLVVAS PPQAEHGGWP HPTILAACSI  
LGVDEVWAVG GGQAVALLAY GDDAAGLEPV DMITGPGNIF VTAARKRLVRG VVGTDSEAGP  
TEIAVLADAS ANAVNVAYDL ISQAEHDVMA ASVLITDSEQ LAKDVNREIE ARYSITRNAE  
RVAEALRGAQ SGIVLVDDIS VGIQVADQYA AEHLEIHTEA ARAVAEQITN AGAIFVGDFFS  
PVPLGDYSAG SNHVLPTSGS ARFSAGLSTH TFLRPVNLIE YDEAALKDVS QVVINFANAE  
DLPAGGEAIR ARFENLPTTD EA

&gt; RXA01132 (1-303, translated) 101 residues

MKLAVIGGDG IGPEVTAEAL KVLNAVRDDI ETTDYDLGAR RYLKNGELLT DEDLASLREH  
DAILLGAIGA PGSVPPGILE RGLLLKMRFA LDHHVNLRRS K

&gt; RXA01145 (1-456, translated) 152 residues

MAIELLYDAD ADLSLIQGRK VAIVGYGSQG HAHSQNLRRS GVEVVIGLRE GSKSAEKAKE  
AGFEVKTAE AAAWADVIML LAPDTSQAEI FTNDIEPNLN AGDALLFGHG LNIHFDLIK  
ADDIIVGMVA PKGPGHLVRR QFVDGKGVPC LI

&gt; RXA01162 (1-1245, translated) 415 residues

MYIVGICLQL VVMSQPMSP DSAPGTERGH ERTHFAVVD SODPAQATAP RAPAESITLI  
GIGTDGFEGL GLKAQALQR ASVVIGSWRQ LNLVPDAIKA ERRPWPNGTK HPDLDALEKE  
FLGRHVAVLA SGDPLFYGVG TAMVHVLGMD RLTVIPGPSS ASLACARLGW TVNRTRVVYL  
GQEPITLIP IIESGAQFLV LGKDEFSTAQ VATLLNELGL GETPLTVLSD LGSTDEEITQ  
GTASHPPAAV SVLNVIAGVA RTAMPKPHFE GDVSNEDLRA LTVAALEPTQ GQMLWTFGDI  
GAALACDWLR AAGNKAHAIS FASMVEQSQR NARKLGVSTL SVKETLSPKT LKDIRYVQGP  
ESASPHAFIM NKGLGIDLVP ETAWMMLRPG GKLIQASTE DNIAKLHTLQ EQHGG

&gt; RXA01208 (1-804, translated) 268 residues

VANSFLDSLTL LVRQNTPLVQ CLTNSVVMQF TANVLLAAGA TPAMVDTPAE SAEFAAVANG  
VLINAGTPSA EQYQGMTKAI EGARKAGTPW VLDPVAVGGL SERTKYAEGI VDKQPAAIRG  
NASEVVALAG LGAGGRGVDA TDSVEVALEA AQLLAKRTGG VVAVSGAEDL IVSADRVTWL  
RSGDPMQLV IGTGCSLGLA TAAYLGATVD SDISAHDAVL AAHAHVGAAG QIAAQKASAP  
GSFAVAFIDA LYDVDAQAVA SLVDVREA

&gt; RXA01209 (1-1428, translated) 476 residues

MCERPEKYVT DFSLYLVTDV VLGGGPKKVA GIVDSAISGG VSVVQLRDKN SGVEDVRAAA  
KELKELCDAR GVALVNDYL DIAVELGLHL HIGQGDTPYT QARELLPAHL ELGLSIENLD  
QLHAVIAQCA ETGVALPDVI GIGPVASTAT KPDAAPALGV EGIAEIAAVA QDHGASVAI  
GGVGLRNAAE LAATPIDGLC VVSEIMTAAN PAAAATRLRT AFQPTFSPET QTELSQTELQ  
GAFVNSPSAP RVLSIAGTDP TGGAGIQADL KSIAAGGGYG MCVVTSLSVAQ NTHGVNTIHT  
PPLTFLEEQL EAVFSDVTVD AIKLGMLGSA DTVDLVASWL GSHEHGPVVL DPVMIATSGD  
RLLDASAEES LRLAVHVDV VTPNIPELAV LCDSAPAITM DEAIQAQGF ARTHDTIVIV  
KGGHLTGALA DNAVVRPDGS VFQVENLRVN TTNSHGTGCS LSASLATKIA AGESVE

&gt; RXA01215 (1-975, translated) 325 residues

MTAHWKQNK NLMLFSGRAH PELAEAVAKE LDVNVTPMTA RDFANGEIYV RFEESVRGSD  
CFVLQSHQTP LNKWLMEQLL MIDALKRGS KRTAILPFY PYARQDKKRR GREPISARLI  
ADMLTAGAD RIVSVDLHTD QIQGFDDGPV DHMHAMPILT DHIKENYNLD NICVVSPDAG  
RVKVAEKWAN TLGDAPMAFV HKTRSTEVAN QVVANRVVGD VDGKDCVLLD DMIDTGCTIA

GAVGVLLKKAG AKSVVIACHT GVFSDFPARER LSACGAEEVI TDTLTPQSTE GWSNLTVLISI  
APLLARTINE IFENGSVTTL FEGEA

> RXA01239 (1-2433, translated) 811 residues  
MARPI SATYR LQMRGPQADS AGRSFGFAQA KAQLPYLKKL GISHLYLSPI FTAMPDSNHG  
YDVIDPTTIN EELGGMEGLR DLAAATHELG MGIIIDIVPN HLGVAVPHLN PWWWDVLKNG  
KDSAFEYFD IDWHEDNGSG GKLGMPIGA EGDEKLEFA ELDGEKVLKY FDHLFPIAPG  
TEEGTPQEVY KRQHYRLQFW RDGVINFRF FSVNTLAGIR QEDPLVFEHT HRLRLRELVAE  
DLIDGVRVDH PDGLSDPFGY LHRLRDLIG DRWLIIEKIL SVDEPLDPRL AVDGTGTYDA  
LRELDGVFIS RESEDKFSML ALTHSGSTWD ERALKSTEE LKRVVAQQEL AAEILRLARA  
MRRDNFSTAG TNVTEDKLSE TIIELVAAMP VYRADIYSL RTTATVIAEM SKRFPSRRDA  
LDLIAAALLG NGEAKIRFAQ VCGAVMAKGV EDTTFYRASR LVALQEVGGA PGRFGVSAAE  
FHLLQEERSL LWPRTMTTSL THDTKRGET RARIISLSEV PDMYSELVNR VFAVLPA PDG  
ATGSFLLQNL LGVWPADGVI TDALRDRFRE YALKAIREAS TKTTWVDPNE SFEAAVCDWV  
EALFDGPSTS LITEFVSHIN RGSVQISLGR KLLQMVGAGI PDITYQGTEFL EDSLVDPDNR  
RFVDYTAREQ VLERLQTDW TQVNSVEDLV DNADIAKMAV VHKSLELRAE FRASFVGGDH  
QAVFGEGRAE SHIMGIARGT DRNHLNIIAL ATRRPLIED RGGWYDTT VT LPGAQWEDRL  
TGQRFSGVVP ATDLFSLPV SLLVLVPDSE F

> RXA01253 (1-750, translated) 250 residues  
MTTLNIGLIL PDVLGTGDD GNALVLRQRA RMRGINAEIQ RVTLD DAVPS TLDLYCLGGG  
EDTAQILATE HLT KDGLQT AAAAGRPIFA VCAGLQVLGD SFRAAGRVID GLGLIDATTV  
SLQKRAIGEV ETTPTTAGFT AELTERLTGF ENHMGATLLG PD AEPLGRVV RGE GNTD VWA  
ASENTDDQ RQ FAE GAVQGS IIATYMHGPA LARNPQLADL MLAKAMGVAL KDLEPLDIDV  
IDRLRAERLA

> RXA01321 (1-537, translated) 179 residues  
VAENDYPMEV VAVVGNHENL RYIAENHNVP FFHVPPPKDA VGKRKA FDQV AEIVNGYDPD  
AIVLARFMQI LPPDLCEMWA GRVLNIHHSF LPSFMGARPY HQAYS RGVKL IGATCHYATG  
DLDDGP IIEQ DVIRVTHKDT PTEMQRLGRD AEKQVLARGL RFHLEDRVLV YGNRTVVFD

> RXA01352 (1-606, translated) 202 residues  
VFENRFDLRC YVVTGAGSVD EVVHTASAAA RGGAGVVQVR SKPISPEAMR ELASKVALEV  
ARCSPTTRVL IDDLHLVASS IMREGLPIHG VHLGQDDMSV LEARELLGPE AIIGLTGTGL  
ELVAAANELS DVLDYIGAGP FRKTPTKDSG RPPIGLAGYP PLVELSKVPI VAIGDVTPAD  
VRALSATGVA GVAMVRAFSE SD

> RXA01360 (1-159, translated) 53 residues  
MLHIADKTFD SHLIMGTGGA TSQALLEESL VASGTQLTTV AMRRHQATTS SGE

> RXA01361 (1-606, translated) 202 residues  
ADAVISIDGH DPCLTVTMNS GVRVASKSV VLAAGLGAAS IPGWFE GANP LQLRPVYGD I  
VRVRVPERLQ PMVTKVVRGF VEDRQIYIIP RTDGT LAIGA TSREDHPQPR TGAVHDLRLD  
AIRLIPGIEE TEFIEVTCGA RPGTPDDL PY LGWVGSNVIA STGYFRHGIL LSALGARA AV  
DMATNQPLFP TLDVCDPFRH QI

> RXA01371 (1-1296, translated) 432 residues  
MAQVMDFKVA DLSLAEAGR H QIRLA EYEMP GLMQLRKEFA DEQPLKGARI AGSIHMTVQT  
AVLIETLTAL GAEVRWASCN IFSTQDEAAA AIVVGS GTVE EPAGVPVFAW KGESLEEYWW  
CINQIFSWGD ELPMILDDG GDA TMVIRG REYEQAGLVP PAEANDSDEY IAFLGMLREV  
LAAEPGKWKI IAEAVKGVTE ETTTG VHRLY HFAEEGVLPF PAMNVNDAVT KSKFDNKYGT  
RHSLIDGINR ATDMLMGKN VLVCGYGDVG KGCAEAFDQ GARVKVTEAD PINALQALMD  
GYSVVTVDEA IEDADIVITA TGNKDIISFE QMLKMKDHAL LGNIGHFDNE IDMHSLLHRD  
DVTRTTIKPQ VDEFTFSTGR SIIVLSEGR L LNLGNATGHP SFVMSNSFAD QTIAQIELFQ  
NEGQYENEVY RL

> RXA01381 (1-921, translated) 307 residues  
SAGVGTITVI DDDTVDISNI HRQILFGASD VGRPKVEVAA ERLKELQPD I TVNALHERIT  
PENACELLNS VDLVLDGSDS FSTKYLVS DA AEITGTPLIW ATVLRFHGEL ALFNSGPDHR  
GVGLRDVFE QPSADFPDC ATAGVLGATT ATIGALMATH AIGFLTEIGD VQPGTILSYD  
AFPAATRSFR VSADPARPLV TRLRAS YEAA RTDTTSLIDA TLNGSLTALD IREPHEVLLK

DLPEGATSLK LPLSQITSDS DILEALSGID GDILVYCASG IRSSDFIDNY SHLGHKFVNL  
PGGVNAL

> RXA01393 (1-870, translated) 290 residues  
MNPIQLDTLL SIIDEGSFEG ASLALSISPS AVSQRVKALE HHVGRVLVSR TQPAKATEAG  
EVLVQAARKM VLLQAETKAQ LSGRLAEIPL TIAINADSLT TWFPVPFNEV ASWGATLTL  
RLEDEAHTLS LLRRGDVLGA VTREANPVAG CEVVELGTMR HLAIATPSLR DAYMVDGKLD  
WAAMPVLRFG PKDVLQDRDL DGRVDGPVGR RRVSIIVPSAE GFGEAIRRGL GWGLLPETQA  
APMLKAGEVI LLDEIPIDTP MYWQRWRLES RSLARLTDAV VDAAIEGLRP

> RXA01394 (1-699, translated) 233 residues  
MEIFITGLLL GASLLLSIGP QNVLVIKQGI KREGLIAVLL VCLISDVFLF IAGTLGVDLL  
SNAAPIVLDI MRWGGIAYLL WFAVMAAKDA MTNKVEAPQI IEETEPTVPD DTPLGGSABA  
TDTRNRVRVE VSVDKQVRVW KPMLMAIVLT WLNPNAYLDA FVFIGGVGAQ YGDTGRWIFA  
AGAFASLIW FPLVGFGAAA LSRPLSSPKV WRWINVVAV VMTALAIKLM LMG

> RXA01416 (1-630, translated) 210 residues  
AGASENVVNR VKDGAPAPTE KIVSDGLEAA KPFIDILCRA QEGLAQRVGN AAKEFFPLFPP  
YTDEVYSAVE RKVSKKLASL LTLKAKQERD DATNAYMEEI EAELLPKFEA SYSSAAEASK  
EIRAGYNAVM KAIVRRMILT DHFRIDGRGV TDIRDLAVEV ELIPRAHGSS LFERGETQIL  
GVTTLDMLKM EQQIDSLAPG DAKRYMHYHN

> RXA01442 (1-1224, translated) 408 residues  
MYIPESIGTP LTPNATKVML LGSGELGKEV AIAFQRLGLE VHAVDRYEHA PAHQVAHFSY  
VIDMTDAAQV RELVERVRPD FVIPEIEALA TDELVKIEEE GLATIVPTAR AAKLTMNREG  
IRKLAAEELG LPTSNEYFCS TFEEFSAAAE KLGYPNVVKP VMSSSGKGQS VLRSSDDLQA  
AWDYAMSGAR VANSRVIVEA FVEFDYEITL LTVRSIDPTT SKPATWFCEP IGHRQEDGDY  
VESWQPMEMT PRALENARSV AARITNALGG RGVFGVELFV SGDDVYFSEV SPRPHDTGLV  
TLATQRFSEF ELHAKAILGL PVDVTLISPG ASAVIYGGIE SEGVSYTGLA EALAVAETDL  
RIFAKPEAFT KRRMGVAVST AEDVAAAARDR ATLAAAAIKV HPGNSAEA

> RXA01446 (1-1290, translated) 430 residues  
MAAIVIVGAQ WGDEGKGKAT DILGGLVDYV VKPNGGNNAG HTVVVGGEKY ELKLLPAGVL  
SETATPILGN GVINLEALF EEIDGLEARG ADASRLRISA NAHLVAPYHQ VMDRVQERFL  
GKRAIGTTGR GIGPTYADKV SRVGIRVQDI FDESILRQKV ESALDYKNQV LVKMYNRKAI  
VAEEIVQYFL SYADRLRPMV IDATLVLNEA LDQGKHVLMG GGQATMLDVD HGTYPFVTSS  
NPTAGGASVG SGIGPTKITS SLGIIKAYTT RVGAGPFPTE LFDKWGEYLQ TVGGEVGVNT  
GRKRRCGWYD SVIARYASRV NGFTDYFLTK LDVLTGIGEI PICVAYDVDG VRHDEMPLTQ  
SEFHHATPIF ETMPAWDEDI TDCKTFEDLP QKAQDYVRRL EELSGARFSY IGVGPGRDQT  
IVLHVDVLADN

> RXA01483 (1-1272, translated) 424 residues  
MYPYSDADAF RRQPERAKSS QLRTSAVDTR SAFARDRARV LHSALRRLA DKTQVVGPNP  
GDTPTRLTH SLEVAQIARG IGAGLDLDPD LCDLAGLCHD IGHPYGHNG ENALNEVAAA  
CGGFEGNAQT LRILTRLEPK IVSDEGESFG LNLSRAALDA ACKYPWAKTN ADGSVNKKYS  
AYDEDAEILA WIRQGHEDLR PPIEAQVMDF SDDIAYSVHD VEDGIVSGRI DLKVLWDLVE  
LAALADKGAA AFGGSPAELI EGAASLREL VVAAAADFDF SLRSYAALKA MTSELVGRYV  
GSTIESTKKT HAGIDVGRMH GDLIIPETAA SEVKLLKTLA VLYVMDDPGH LARQNRQRDR  
IFRVFDYLV L GAPGSLDPY RQWFIEADSE SEQIRVIVDQ IASMTESRL RLARNAADIS  
GFLG

> RXA01486 (1-657, translated) 219 residues  
MSDVKDFEDT EFGLIEAVAT IDNGDFGTRT IRFETGQLAR QADGAVTTYL DDDTMLLAT  
TASNQPREGF DFFPLTV DVE ERMYAAGRIP GSFFRREGRP STEAILACRL IDRPLRPTFV  
KGLRNEVQIV VTMMSMNPED YYDVVAINGA SAATRISGLP VSGAVGGVRM ALVGDEKHPE  
GQWVAFPTHA QHEQSVFEIV VAGRLVERKR GNKTFSDVA

> RXA01489 (1-1023, translated) 341 residues  
VDIWSGLDSV PADLQGSVVT IGVDGLHRG HQSLIGEAKK QAEELGVPCV MVTDFPHPIA  
VFLPGKEPTR LAPLDYRLNL AAECGVDAAL VIDFTKELAG LSAEEYFTTM IVDTLHARSV  
VVGENTFTGV NGAGTESTMR ELGQKFGVNV TIAPLLHDDD QRICSTLVRD YLDQGEVERA

NWALGRRYAV RGEVVRGAGR GGKELGYPTA NLYLPTSVAL PADGVYAGWF TITDDREIDK  
EISRDIDGTM VPGVRYQTAI SVGTNPTFGD ERRSVEAFIL DQEADLYGHH VMVEFVGHLLR  
DMVKFNGVDE LLDAMARDVT NARDILAKDK LLLDADTQPS A

> RXA01491 (1-651, translated) 217 residues  
MLDESLFPNS AKFSFIKTGD AVNLDHFHQL HPLEKALVAH SVDIRKAEFG DARWCAHQAL  
QALGRDSGDP ILRGERGMPL WPSSVSGSLT HTDGFRAAVV APRLLVRSMG LDAEPAEPLP  
KDVLSGIARV GEIPQLKRLE EQGVHCADRL LFCAKEATYK AWFPLTHRWL GFEQAEIDLR  
DDGTFVSYLL VRPTVPVFIS GKWVLRDGYV IAATAVT

> RXA01508 (1-1539, translated) 513 residues  
MSDLGPiWRW LLLVSVSICA ASGLVYELAL VSLSTSLNGG GIVETSLIVA GYVAALGLGA  
LLVKPFLNWP AQTFLGVETL LGLIGGCSAL VLYFTFATIG QSLWILVIAT AAIGILVGAE  
LPLMTMIQQ GRLADAKTTG SLVATLNAAD YLGALLGGLA WPFVLLPWLG MMRGAAAAGM  
INLVAALFVG CVLLRHLLPR THFFVSVVAL LLAI AALATV LVKSDGIVAT ARAQLYRDPV  
IYSHQSDYQD IVVTERGKDR RLYLNGGLQY STRDQHRYTE SLVYPSLNPE AESVLIIGGG  
DGLAARELLR FPSMQITQVE LDPEVIEVAN TVLRSNDNGGA MEDPRVSIIV DDAFTWLRSG  
GNNGETYDSI IIDLPDPNND TMARLYSEEF YTLARARLNE QGRMVVQSSS AYTTDPVFWR  
VGATLKSAGC EQVIPYHVHV PTFGDWGFQL CGPADMELEL REDTPPLTFL NDEV LVAAGV  
FGLDNQPREL EPSTLDHPRV VEDLRKGYRE SGD

> RXA01512 (1-600, translated) 200 residues  
MSNNVEMADH KDLNVPANPY GTDIESVLIS EEKCLKQRIAE MAKRVSEEFK DAEEDLILVC  
VLKGAFYFLA DFRMLDIPT QSEFMAVSSY GNSTSSSGVV RILKDLDEI EGRDVLIVED  
IIDSGLTSLW LMRNLKRNRP KSLNVITLLR KPERLTNNID MFDIGFDIPN EFVVG YGLDF  
AERYRDLPYV GTLEPHVYS

> RXA01514 (1-588, translated) 196 residues  
VDNHAAREF DEERATAAIR ELLIAVGEDP DREGLLETPA RVARAYKETF AGLHEDPTTV  
LEKTFSEGHE ELVLVREIPI YSMCEHHLVP FFGVAHIGYI PGKSGKVTGL SKLARLADMF  
AKRPQVQERL TSQIADALVE KLDAQAVAVV IEAEHLCMAM RGIRKPGAVT TTSAVRGGFK  
NNAASRAEVF SLIRGH

> RXA01515 (1-852, translated) 284 residues  
MNVSSLTIPG RCLVMGIVNV TEDSFSDGGK YIDVDQIAIAH AKELVAAGAD MIDVGGESTR  
PGAVRVDASV ERDRVVPVIK ALHDAGIHTS VDTMRASVAQ AAAGAGVSMI NDVSGGLADP  
EMFSVMAEAQ IPVCLMHWRT LQFGDAAGQA DHGGDVVADV HAVLDDLVAR ATAAGVAENQ  
IVLDPGLGFA KSREDNWRL QALPEFISGP FPILVGASRK RFLAGVRKDR GLDVTPIDAD  
PATAAVTAVS AHMGAWGVRV HDVPVSRDAV DVAALWRS GG THHG

> RXA01516 (1-390, translated) 130 residues  
MADRIELKGL ECFGHGVFD FEKEQGQPFV VDVTCWMDFD AAGASDDLSD TVDYGALALL  
VAEIVEGPSR DLIETVATES ADAVMAKFDA LHAVEVTIHK PKAPIPTFA DVAVVARRSR  
KSMAAGRSNA

> RXA01517 (1-477, translated) 159 residues  
MHAVALSIGSN MDDRYALLNT VIEEFKDEIV AQSAIYSTPP WGIEDQDEFL NAVLVVEVEE  
TPIELLRRGQ KLEEAERVR VRKWGPRTLD VDIVQIIKDG EEILSEDPEL TLPHPWAWQR  
AFVLIPWLEA EPDAVLHGTT IAEHVDNLDP TDIEGVTKI

> RXA01521 (1-798, translated) 266 residues  
LSFTHGQGRV FDTVEQIRMF GSALRKTKGP VVLVPLGNGL HAGHIALIRA AKRIPGAVVV  
VAYAGPESDH ARLREELIDA IFPFNPETLW PHGIRVEVTG GPTLTPQGAE VTKVLGLLGI  
TGATDVVLGE KDYELVVLVQ RALNDLHIPV KLHSVPTVRM PDGLAISLRN ISVPEDSRET  
ALS LAAALTA GAHSAEHGEA VVKETVTQVL KAAGVTPDYV EIRGLDLGPA PEIGDARLFA  
AITLGDVQLH DNVGLPLGIG FKNIEG

> RXA01528 (1-528, translated) 176 residues  
VNQAWQQSRL VTSDETSAGG LVVSGLAEEAV NANNEVDLSK IYVALIGRLD RRGRLWSMP  
KGHVEPGEDK AATAEREVWE ETGIHGEVFT ELGVIDYWFV SEGKRIHKT V HHLLRYVDG  
DLNDEDPEVT EVAWIPANQL IEHLAFADER KLARQAHDLL PEFALKEKAE GRSTPR

> RXA01551 (1-1875, translated) 625 residues  
 LKAVPTGARA RAEIALIAAR APFEPVRLAP AKEERNGAMT PTQNEIHPKH SYSPIRKDGL  
 EVPETEIRLD DSPSGPNEPF RIYRTRGPET NPKQGLPRLR ESWITARGDV ATYQGRERLL  
 IDDGRSAMRR GQASAEWKQ KPAFLKALPG KRVTQMAYAR AGVITREMEF VALREHVDAE  
 FVRSEVARGR AIIPNNVNHPI ESEPMIIGRK FLTGINANIG NSAVTSSIEE EVSKLQWATR  
 WGADTVMDLS TGDDIHTTRE WIIRNSPVPI GTVPIYQALE KVNQVAADLN WEVFRDTIEE  
 QCEQGVDMYT IHAGVLLAYI PLTTRRVGTI VSRGGSIMAG WCLAHHRESF LYEHFDELCE  
 IFAQYDVAFS LGDGLRPGSL ADANDAAQFA ELKTIGELTQ RAWEDVQVM VEGPGHVPLN  
 MIQENNELEQ KWAADAPFYT LGPLVTDIAP GYDHITSAG AAHIAMGGTA MLCYVTPKEH  
 LGLPNRDDVK TGVITYKLAA HAADVAKGHP GARAWDDAMS KARFEFRWND QFALSLEDPT  
 AIAYHDETLP AEPAKTAHFC SMCQPKFCM RISQDIRDMF GDQIAELGMP GVGDSSTAVA  
 SSGAREGMAE KSREFIAGGA EVYRR

> RXA01561 (1-930, translated) 310 residues  
 MLTLNDVITA QQRTPHVRRL TPLFEADPID GTQIWIKAEF LQKCGVFKTR GAFNRQLAAS  
 ENGLLDPTVG IVAASGGNAG LANAFAAASL SVPATVLVPE TAPQVKVDRL KQYGATVQOI  
 GSEYAEAFEA AQTFESETGA LFCHAYDQPD IAAGAGVIGL EIVEDLPDND TIVVAVGGGG  
 LYAGIAAVVA AHDIKVVAVE PSKIPTLHNS LIAGQPVND VSGIAADSLG ARQIGREAFD  
 IATAHPPIGV LVDDEAIIAA RRHLWDNYRI PAEHGAAAAL ASLTSGAYKP AADEKVAVIV  
 CGANTDLTTL

> RXA01599 (1-1662, translated) 554 residues  
 MTSSRKVRPT KHIFVTGGVV SSLGKGLTAA SLGQLLIARG LSVTMQKLDL YLNVDPGTMN  
 PFEHGEVFVT EDGAETDLDL GHYERFLDRN LGLNANVTG KVESTVIAKE RRGEYLKKT  
 QVIPHITDEI KARILSMGEP DAHGNAPDVV ISEVGGTVGD IESQPFLEAA RQVRHEIGRE  
 NCFIHCCLV PYLATSGELK TKPTQHSVAE LRGIGILPDA LVLRCREVP QGLKDKIAMM  
 CDVDYEGVVS CPDSSSIYNI PDVLYREHLD TFIIRRLGLP FRDWDSTWH DLLERVNNPR  
 HELTVGIVGK YIDLDPAYLS VVEAVRAAGY ANWTRTNKWK ITSDDCETPS GAMKALSGLD  
 AIVVPGGFGI RGIEGKIGAI TFAREHKIPL LGLCLGLQCT VIEAARQAGL EQASSTEFDP  
 AATQPVIAATM EEQKAASVSGE ADLGGTMRGL AYPATLEEGS LVAELYGTTE VSERHRHRYE  
 VNNAYRAQIA EGSDLVFSGT SPDGHLVEFV EYPKEVHPYL VATQAHPYK SRPHTAHPLF  
 YGLVKTALEL RVHP

> RXA01617 (1-615, translated) 205 residues  
 ANQIEAATAA HDLDVVKIGM LGTPATIDTV ATALEENSFK HVVLDPVLIC KGQEPGAALD  
 TDTALRAKVL PQATVTPNN FEATTLISGLD KLETIDDLKE AARLIHEQGP QYVVVKGGID  
 FPGDNAVDVL FDGTDYHVS EPKIGDERVS GAGCTFAAVI TAEKAKGNSA VDAVTTAKRV  
 VTRAVKDAVA SNAPFTSVWL AEDNK

> RXA01657 (1-501, translated) 167 residues  
 VIVGVLAALQG GVEEHLTALE ALGATTRKVR VPKDLGLEG IVIPGGESTV LDKLARTFDV  
 VEPLANLIRD GLPVFATCAG LIYLAKHLN PARGQOTLAV VDVVVRNFAF GAQRESFDTT  
 VDVSFSGATF PGVQASFIRA PIVTAFGPTV EAIAALNGGE VVGVRQG

> RXA01660 (1-552, translated) 184 residues  
 MSSNSINAEA RAELAELIKE LAVVHGEVTL SSGKKADYYI DVRRATLHAR ASRLIGQLLR  
 EATADWDYDA VGGLTLGADP VATAIMHADG RDINAFVVRK EAKKHGMQRR IEGPDLTGKK  
 VLVVEDTTTT GNSPLTAVAA LREAGIEVVG VATVVDRTG ADEVIAAEGL PYRSLGLSLD  
 LGLN

> RXA01678 (1-528, translated) 176 residues  
 MLKCAVDEAA GGRAQAFVSS GDNIGGSPFQ SSILGDEPTL EALNQMGLEDY SAVGNHEFDK  
 GYADLSSRVA DLADFDYLG NVEGENPDLA PYGISHLDGV KVAFGVTVSQ ETPMLVNSEG  
 IEGITFTDPL EATNRVADEL VGSGAADVVV ALYHEGITGT EAWSENIDVV FAGHTH

> RXA01679 (1-1236, translated) 412 residues  
 MQSGNYGHAL ADVDFSFNHD TGETLVDDAR MLGVDDINAC ENPDDTIADI VAQAELDAGE  
 AGKEVVATID GDFLRASDEG AESGSNYGAE SQLVNMIASA VRWSMSTNTA TTADIGLMNA  
 GGLHTDLFSG DVTYAEAFEI QPFGSGDSFV TLKGSVFKDA LDQQWEEGSA RPVAALGVSD  
 NVSYTYDINR PIGDRVTSVT IDDTPLDPER DYVVAASLYL QSGNEGMTAL TRGTAPAQTG



IVDVQSTIGY LSNNNVTPRT GQAQISITPS GEFNAGETIT LDMAGLRYTQ GDTATEVTVS  
 LREEIVSAPI DPQLGEAGFG EAGTATVSLD IPATLSGTQN LVVTTDTGTR ISMPVEIVGA  
 EQPAPQPAGS SVLGTGVLSG LLGIVVGILG MVGLVNWIDP SFIQQIQQQI FA

> RXA01690 (1-1053, translated) 351 residues  
 PDRLKEILAA PKFGKFFTDH MVTIDWNESE GWHNAQLVPY APIPMDPATT VFHYGQAI FE  
 GIKAYRHSDE TIKTFRPDEN AERMQRSAAR MAMPQLPTED FIKALELLVD ADQDWVPEYG  
 GEASLYLRPF MISTEIGLGV SPADAYKFLV IASPVGAYFT GGIKPVSVWL SEDYVRAAPG  
 GTGDAKFAGN YAASLLAQSQ AAEGKCDQVV WLDAIEHKYI EEMGGMNLGF IYRNGDQVKL  
 VTPELSGSLL PGITRKSLLQ VARDLGVEVE ERKITTTWEWE EDAKSGAMTE AFACGTAAVI  
 TPVGTVKSAAH GTFEVNNNEV GEITMKLRET LTGIQQGNVE DQNGWLYPLV G

> RXA01692 (1-750, translated) 250 residues  
 MTISQENQPI IQPVSLIGGG PGAWDLITVR GMNRLQEADV ILADHLGPTD ELEKLCDISS  
 KTVVDVSKLP YGRQVTQERT NEMLVEYAQQ GLKVVRLKGG DPYVFGRGFE ELEFLGEHGI  
 ECEVIPGVTS AVSVPAAGI PITNRGVVHS FTVVSGHLPP GHPKSLVDWA ALAKSGGTLS  
 IIMGVKNAGA IAQALMDGGL DADTPAAVIQ EGTDAQRSV RCTLGTLGAV MVEEEIKPPA  
 VYVIGQVAGL

> RXA01698 (1-990, translated) 330 residues  
 GNTEWDKWT IMSSDALDME DPDNVAAAMSS GRGAKLTRPR PGHADYAGML KYGFDDARNV  
 LERSSARETA ARVAAATVAR SFLRET LGVE VLSHVISIGA SEPYTGAAPT FADIQAIDDS  
 PVRAF GKDAE ESMIAEIEAA KKAGDTLGGI VEVIVEGLPI GLGSHISGED RLDAQIAAAL  
 MGIIQAIKGV IGDGFEEARR RGSEAHDEVF LDDNGVYRNT NRAGGLEGGM TNGETLRVRA  
 GMKPIS TVPR ALKTIDMENG KAATGIHQRS DCAVPAAGV VAEAMVTLVL ARAVLQKFGG  
 DSLSETKSNI DTYLKNIEER MKFEGLEDGA

> RXA01699 (1-570, translated) 190 residues  
 MERNEVNDQI HLDHQSDDT EDCSCPIVVLV GLPGAGKSTI GRRLARALNT ELVDSDELIE  
 RATGKACGAV FSELGEPAFR ELEAIHVAAE LKSSGVVSLG GGSVLTESTR ELLKGQDVVW  
 IDVPVEEGIR RTANERSRPV LQAADPAEHY RNLVKVRTPL YEEVATYRLR TNNRSPQQVV  
 AAVLHHLEID

> RXA01712 (1-501, translated) 167 residues  
 VKAENYGGVE VSPEIQKQRQ ELGQEAIPPI AVMSGSLNFD VDTRFFLEAE VPPIIITDNS  
 DQAKQQLVD AGAQVIEVET LTAEVGVEKL RSLGYARIDC EGGATLYGQM LAADLVVDVWH  
 HTIDPTLSGS VERPTVKGGD DAPRRFALEH VFVDDDSTLF LRYKRAK

> RXA01719 (1-561, translated) 187 residues  
 MNIIILAGGE GKRMGGVDKA AVAVDGR TLL DILLSQLDPE DDVVVVSPA I IDGITTVCEE  
 PPLGGPVAGI EAGLNSFEHA HEFTAILAVD APYSAAMLPL LQAQIGKADV AVTLAADGWV  
 QPLCALWRSG SLEAVIHS LG ETRNRPAKAL LKQAGHIVEV GGDGTEKD YD TVAELEVLGN  
 VTLPKAH

> RXA01720 (1-1209, translated) 403 residues  
 VAQQRSVDDY LSILIDSVAP LPPVKTPILG AHPLSHLAED VVATIPIPKF TNSAVDGYAI  
 LKEDIHGSGP WTFLVGGDTP AGSAPASINN GKAIRVMTGG PVPSTNKDMI VVPVELTNAP  
 VDHS LPT EIT INELPGERNN IRHAGEHLKE GEIAVAAGTA FDAGTVSTVI SVGHDTVKAH  
 PCPRVAVITT GDELNQGNPW GIPNSNGPML VAE LKRVGIK DPQHFHSDDS ETALRETLDK  
 PAEVADVIIT VGGISAGAFD VVKAVGTKTG GFEFFPIAMK PGKPQGHGQW GDAKVVCLPG  
 NPVAAWVSFR LFVVPVIERL GGGKRLASIS ELPVVALRSN RALKAREGPV LAIPVAIDWE  
 KRMANSQAHR SHMVGALAGS GGIALVTSSI AEDGLVDVVL GRM

> RXA01746 (1-753, translated) 251 residues  
 MTAPRDPFFP ADLSIRASAE PIEIQRGLI DYQEAWDYQA ELATRRANDE IPDQLLILEH  
 PSVYTAGKRT QPEDLPTNGL PVINADRGRG ITWHGPGQLV IYPIIKLADP IDVVDYVRRL  
 EEALIQVVG D MG VAGAGRID GRSGVWVPAH DGWVDSKVAA IGIRITRGVA MHGVAINCNN  
 TLDFYEH IIP CGIADAGLST LSRELKRDVS VEELVEPSIR ALDDALAGRL VVSDHSFGSA  
 PDPTKNLPKR G

> RXA01747 (1-1044, translated) 348 residues

VTIAPEGRRLL LRVEARNSET PIETKPRWIR NQVKNNGPEYQ DMKERVAGAS LHTVCQEAGC  
 PNIHECWESR EATFLIGGAN CSRRCDFCM I NSARPEPLDR GEPLRVAESV REMQLNYSTI  
 TGVTRDDLDD EGAWLYSEVV RKIHELNPHT GVENLVPDFS GKKDLLQEVF ESRPEVFAHN  
 VETVPRIFKR IRPAFRYERS LDVIRQARDF GLVTKSNLIL GMGETKEEIT EALQDLHDAG  
 CDIITITQYL RGPGLFHPIE RWVKPEEFLE HADAAKEMGF AAVMSGPLVR SSSYRAGRLYA  
 QAMEFRGEEI PAHLAHLKDT SGGSTAQEAS TLLERYGASE DTPVVVSFN

> RXA01757 (1-801, translated) 267 residues  
 MPTASPIYDV VVGAGISGL IATQLLDLAG LNIKCFEACS RVGGRAVSVQ QSDLFLDLGA  
 TWFNLNEPLV QQLVNNLGLG TFPQAIEGDA LFETLVDAPS RLRGNPIDAA SGRFQAGASS  
 LALGLAAQLK PGVLELGDV HSLSEEDGEI VVKSSKQIVR AKHVIIAVPP ALAAELIGFT  
 LDLPADVRKA AHPQHIAVMN WAKEKYTLPT QAASAGGFGH ELFQQPLGHG RIHWASTEVA  
 TEFGGHLEGA VRAGIQAAALQ TGFNLKS

> RXA01807 (1-792, translated) 264 residues  
 MPSAGEEILE QRAQLEFDQR RADVVMIGSQ VVYGSVGLSA AIPVMHNEGL RVVAVPTVVL  
 SSMPLYASSH RQPMSDQWLA DALQDLVDLG IIDEVSTIST GYFTSASQVR VVAAWLQKIR  
 ETHPHVRIVV DPIMGDSVDG IYVADEIATA ICQDLCPLAT GIIPNAFELS HVMGSGDPRS  
 LLGPFGEWII ITSATETVGT TVTRIVTRDS VQEIASATVD TTAKGAGDVY AAALIAALHK  
 DFLSLDAASH ASNTVCAGLQ TKAL

> RXA01821 (1-378, translated) 126 residues  
 RNSQGWKPCS TRSPKNTSIE DNGDHVVIQA GEETTIVDRV IVTTGSWTSE LVPSIAPLLE  
 VRRVLVTWFL PNNPVDFQPE NLPCFIRDRD GFHVFGAPCV DGYSIKIAGL DEGWVPLSLD  
 PPMCPR

> RXA01835 (1-531, translated) 177 residues  
 MNTAAWAHRH HVRKGGGIPY VSHLYSVMYL LASVTNDEDV LIAGLLHDTL EDVPEEYNSA  
 QLEADFGPRV RELVEELTKQ PLKSWKARAD AYLLHLSAGA SLEAVLISTA DKLHNLMSIL  
 DDLEIHGEDL WQRFNAGKEQ QIWWYSEVYQ ISLQRLGFNE LNKQLGLCVE KLLKQSA

> RXA01850 (1-1347, translated) 449 residues  
 MAISVVDLFS IGIGPSSSHT VGPMRAALTY ISEFPSSHVD ITLHGSLAAT GKGHCTDRAV  
 LLGLVGWEPT IVPIDAAPS GAPIPAKGSV NGPKGTVSYS LTFDPHPLPE HPNAVTFKGS  
 TTRTYLSVGG GFIMTLEDFF KLDDIGSGVS TIHPEAEVPC PFQKSSQLLA YGRDFAEVMK  
 DNERLIHGDL GTVDAHLDRV WQIMQECVAQ GIATPGILPG GLNVQRRAPQ VHALISNGDT  
 CELGADLDAV EWNLYALAV NEENAAGGRV VTAPTNGAAG IIPAVMHYAR DFLTGFAGAEQ  
 ARTFLYTAGA VGIIKENAS ISGAEVGCQG EVGSASAMAA AGLCAVLGGS PQQVENAAEI  
 ALEHNLGLTC DPVGGLVQIP CIERNAIAAM KSINAARLAR IGDGNRVS L DDVVVTMAAT  
 GRDMLTKYKE TSLGGLATT L GFPVSMTEC

> RXA01878 (1-879, translated) 293 residues  
 MEEPSGAQLL GPVEIRALAE KLDVTPTKKL GQNFVHDPNT VRRIVAAAE L TPNDHVVEVG  
 PGLGSLTLAL VESAASVTAV EIDPRLAAEL PETFQWRAPA LAHKLSIVLK DALKVQQSDM  
 AVQPTALVAN LPYNVSVPLV LHMMEEFPTI NKVLVMVQAE VADRLAADPG SKIYGVPSVK  
 ASFYGPVTRA GSIGNVFWP APKIESGLVK IVREDTAWKQ DDETRKKVWP IIDAAFLQRR  
 KTLRAALSGH YGSGQAAEEA LRAADIDPTL RGEKLDVTDY VRLAGVLQOK DEK

> RXA01892 (1-729, translated) 243 residues  
 VTSSEQPRT GYKRVMLKLE GEMFGGKVG VDPDVVDNVA RQIAEVAKTG AEIAVVIGGG  
 NFFRGAEQQ RGMDRARSY MGMLGTMNC LALQDFLGQH GVECRVQTAI NMAQVAEPYL  
 PLRAERHLEK GRVIFGAGM GMPYFSTDTT AAQRALEIGC DVLLMAKAVD GVYSDDPTN  
 PDAELFTEIT PKEVIEKGLK VADATAFSLC MDNKMPILVF NLLTEGNIAR AISGERIGTL  
 VES

> RXA01894 (1-855, translated) 285 residues  
 MPKPKNNAGR DLKAAIAVGI GLGVLVLLGI VLSPGWYIL VAGFMAAATW EVGSRLKEGG  
 YHLPLPIMII GGQAIWLSW PFGTMGILAS FVATVLVLMY FRIFYNGTEK EARNYLRDTS  
 VGIFVLTWIP LFGSFAAMLS LMQNNSIPGT YFILTFLCV IASDVGGYIA GVFFGSHPM  
 PLVSPKKSWE GFAGSIVLGS VTGALS VHFL LDHHWWMGVI LGCALVVCAT LGDLVESQFK  
 RDLGIKMSN LLPGHGGLMD RLDGMLPAAM VTWLILSVIS SSYP

> RXA01920 (1-414, translated) 138 residues  
ADVIRLIIRD EAVHGYIIGY KYQKAVAKET PERQEELKEY TFDLLYDLYD NETQYSEDLY  
DDLGWTEDEVK RFLRYNANKA LNNLGYEGLF PADETKVSPN ILSALSPNAD ENHDFFSGSG  
SSYVIGKAEN TEDDDWDF

> RXA01928 (1-837, translated) 279 residues  
MQVATTQKAL IDALLHHKSV GLVPTMGALH SGHASLVKAA RAENDTVVAS IFVNPLQFEA  
LGDCDDYRNY PRQLDADLAL LEEAGVDIVF APDVEEMYPG GLPLVWARTG SIGTKLEGAS  
RPGHFDGVAT VVAKLFNLVR PDRAYFGQKD AQQVAVIRRL VADLDIPVEI RPVPIIRGAD  
GLAESSRNQR LSADQRAQAL VLPQVLSGLQ RRKAAGEALD IQGARDTLAS ADGVRDLHLE  
IVDPATLEPL EIDGLLTQPA LVVGAIFVGP VRLIDNIEL

> RXA01929 (1-807, translated) 269 residues  
MSGIDAKKIR TRHFREAKVN GQKVSVLTSY DALSARIFDE AGVDMLLVGD SAANVVLGRD  
TTLSTLDEM IVLAKAVTIA TKRALVVVDL PFGTYEVSPN QAVESAIRVM RETGAAAVKI  
EGGVEIAQTI RRIVDAGIPV VGHIGYTPQS EHSLGHHVQ GRGASSGKLI ADARALEQAG  
AFAVVLEMVP AEAAREVTEDE LSITTIGIGA GNGTDGQVLV WQDAFGLNRG KKPRFVREYA  
TLGDSLHDAA QAYIADIHAG TFPGEAESF

> RXA01940 (1-579, translated) 193 residues  
RVTLVSTGPL TNIALAVRKE PRIAERVKEV VLMGGGYHVG NWTAVAEFNI KIDPEAAHIV  
FNEKWPLTMV GLDLTHQALA TPEIEAKFNE LGTDVADFV ALFDAFRKNY QDAQGFNDPP  
VHDPICAVAYL VDPTVFTRK APLDVELYGA LTTGMTVADF RAPAPADCTT QVAVDLDFDK  
FWMVIDAVK RIG

> RXA01970 (1-1206, translated) 402 residues  
PEPVRIAIAE ALGLMCAEEV QASRALPGFA QAAIDGYAVR AVDVGGEKSF SQQLPVAPPE  
KSLPVVGEVA AGSQQPLRLQ PKQAVMVHTG APLPMLADAV LPMASDRGR KRVTAQRPVR  
SGEFVRKEGD DIQPGDIAVS AGAVLGPAQI GLLAAVGRSK VLVPYPRMS VISVGAELVD  
IDRQPGLGQV YDVNSYSLAA AGREAGADVY RYGLAAGEPR RIKEIIESQM LRSEIIVITG  
AVGGAGSAGV RQVLNELGDI DTERVAMHPG SVQGFLLGE NKIPCFLLPS NPVASLVIFE  
TFVRPVVRMS LGKSNAARRV VRARALNHVV SVAGRKGFI SRMLRDAETQ DYLVEALGGA  
TGAPSHLLAG LSEANGMIRI PEDVTEIRPG DVVDVIFLAQ GR

> RXA02022 (1-1107, translated) 369 residues  
VNSELKPGLD LLGDPIVLTQ RLVDIPSPSG QEKQIADEIE DALRNLNLPG VEVFRFNNNV  
LARTNRGLAS RVMLAGHIDT VPIADNLPSR VEDGIMYCG TVDMKSGLA VYLHTFATLAT  
STELKHDLT IAYECEEVAD HLNLGHIRD EHPEWLAADL ALLGEPTGGW IEAGCQGNLR  
IKVTAHGVRA HSARSWLGDN AMHKLSPIIS KVAAYKAAEV NIDGLTYREG LNIVFCESGV  
ANNVIPDLAW MNLNFRFAPN RDLNEAIEHV VETLELDGQD GIEWAVEDGA GGALPGLGQQ  
VTSGLIDAVG REKIRAKFGW TDVSRFSAMG IPALNFGAGD PSFAHKRDEQ CPVEQITDVA  
AILKQYLSE

> RXA02024 (1-759, translated) 253 residues  
MSSLPVIMAI VNRTPDSEFYD KGATFEDTAA LNRAAEVIEQ GAGIVDIGGV KAGPGDFVSA  
EEEIDRVVPI IAAVRERFPD IDISVDTWRA SVADVAVAHG ATLINDTWAG HDHELVQVAG  
QHKVGYVCSH TGGVIPRTRP YRVHFDDIVA DVITETTKLA EQAVRAGVPE ERVFIDPTH  
FGKNTFHGLE LLRRIDEVVA TGWPVLMALS NKDFIGETLE RGVDKRVAGT LAATAWAAAR  
GVAAFRVHEV AET

> RXA02027 (1-495, translated) 165 residues  
MSQTKQELRT KLREARTNMD EASRTRENAA IIANVSYIIR SKQPKRIAAY VPVRTEPGGR  
LLLDALHAET SALILPVSLE DRRLDWALYE GPTSLVPGAF GIQEPGGTRL GPEALNFCDL  
VIAPALACTP SGIRLGKGGG FYDRALATGV KADVITLLFN GEIRD

> RXA02031 (1-474, translated) 158 residues  
MTEEREILTY EMFGTAMREL AQEIIDDYQP DCVLSIARGG LLIGGALGYA LGIKNVSVIN  
VEFYTDIGEH LEEPMLPPT PKAVDLSGMR VLVADDVADT GKTLELVRDF LGDQVVEVRT  
AVIYHKPNSV FKPEYVWRET DKWINFPWST LPPVEPSK

> RXA02072 (1-1341, translated) 447 residues  
MTVDEQVSNY YDMLLKRNAG EPEFHQAVAE VLESCLKIVLE KDPHYADYGL IQRLCEPERQ  
LIFRVPWVDD QGQVHVNRGF RVQFNSALGP YKGLRFHPS VNLGIVKFLG FEQIFKNSLT  
GLPIGGGKGG SDFDPKGKSD LEIMRFCQSF MTELHRHIGE YRDVPAGNIG VGGHEIGYLF  
GHYRRMANQH ESGVLTGKGL TWGGSLVRTE ATGYGCVYFV SEMIKAKGES ISGQKIIVSG  
SGNVATYAIE KAQELGATVI GFSDSSGWVH TPNGVDVAKL REIKEVRRAR VSVYADEVEG  
ATYHTDGSIW DLKCDIALPC ATQNELNGEN AKTLADNGCR FVAEGANMPS TPEAVEVFRE  
RDIRFGPGKA ANAGGVATSA LEMQQNASRD SWSFEYTDER LQVIMKNIFK TCAETA AEY  
HENDYVVGAN IAGFKKVADA MLAQGGVI

> RXA02085 (1-1800, translated) 600 residues  
MTSNFSSTVA GLPRIGAKRE LKFALEGYWN GSIEGRELAQ TARQLVNTAS DLSGLDSVP  
FAGRSYYDAM LDAAAILGVL PERFDDIADH ENDGLPLWID RYFGAARGTE TLPAQAMTKW  
FDTNYHYLVP ELSADTRFVL DASALIEDLR CQQVRGVNAR PVLVGPLTFL SLARTDGSN  
PLDHLPALFE VYERLIKSF TEWVQIDEPA LVTDVAVEVL EQVRAGYTTL AKRDGVFVNT  
YFGSGDQALN TLAGIGLGAI GVDLVTHGVT ELAAWKGEEL LVAGIVDGRN IWRTDLCAAL  
ASLKRLAARG PIAVSTSCSL LHVPYTLAE NIEPEVRDWL AFGSEKITEV KLLADALAGN  
IDAAAFDAAS AAIASRRTSP RTAPITQELP GRSRGSFDTR VTLQEKSELE PALPTTTIGS  
FPQTPSIRSA RARLRKESIT LEQYEEAMRE EIDLVIKQE ELGLDVLVHG EPERNDMVQY  
FSELLDGFLS TANGWVQSYG SRCVRPPVLF GNVSRPAPMT VKWFQYAQSL TQKHVKGMLT  
GPVTILAWSF VRDDQPLATT ADQVALALRD EINDLIEAGA KIIQVDEPAI RELLPATRRR

> RXA02086 (1-480, translated) 160 residues  
MSLRFEVNCPP LRDVDKPAYL QWSVDSFRLA TAGAPDDVQI HTHMCYSEFN EVISSVIALD  
ADVTTIEAAR SDMQVLAALK SSGFELGVGP GVWDIHSPRV PSAQKVDGLL EAALQSVDP  
QLWVNPDCGL KTRGWPEVEA SLKVLVESAK QAREKIGATI

> RXA02093 (1-804, translated) 268 residues  
MVNYVDRETT LCISLAARPS NHGVRFHNL YAEGLNLYL KAVAPADITA AVAGIRGLNI  
RGAGVSMYPK SDVIPLIDEL HPSAERIRSV NTIVNNDGHL VGYNTDYTAV YHLL EEHRVN  
PNARVAIKGS GGMANAVVAA LAEYGLSGTV VARNHTTGSA LASRYGWEYS ATPEDAKIL  
VNVTPMGMMG PDQDVVSFGE DEVDRADVIF DCVAFPVETP LIKLAKEKKG QTIDGGEVAA  
LQAAEQFHLY TGVLPNTDQI IAAEEFSK

> RXA02106 (1-1056, translated) 352 residues  
MNNHFELKVP GGKLVVDVT TDLDSIADVK ISGDFFLPD EAFFALGRAL QGASVGDNTD  
RLQAKLDAAL AEYDDVELHG FSTADIALAV RRAVTGAQDF TDYEWELHP GVLPTPLNVA  
LDELLLDQVA SGQRGPTMRI WDWD DRATVI GSFQSYVNEI NQEGVNEHGV TVVRRMSGGG  
AMFMEGGNCI TYSLYAPESL VAGLSYEQSY EYLD RLVIAA LKTHD VDAWY VPINDITSTG  
GKIGGAAQKR RSGAVLHHVT MSYDIDADMM TQVLRIGKVK ISDKGLRS AK KRVDP LRRQT  
GASREQIIDT LKSTFSARYG AQEVELSDED FAAGHDLVKT KYATEEWTKR VQ

> RXA02111 (1-1284, translated) 428 residues  
MTTSITPSVN LALKNANSCN SELKDGPWFL DQPGMPDVYG PGASQNDPIP AHAPRQQVLP  
EEYQRASDDE LHRRIREAKD TLGDKVVILG HFYQRDEVIQ HADFGVDSFQ LARAAKTRPE  
AEAIVFCGVH FMAETADLLS TDEQSVILPN LAAGCSMADM ADLDSVEDCW EQLT SIYDGD  
TLIPVTYMNS SAALKGFVGE HGGIVCTSSN ARSVLEWAFE RGQRVLFPPD QHLGRNTAKA  
MGIGIDQMPL WPNPKPLGGN TVSELENKAV LLWHGFCSVH KRFTVEQINK ARAEYDPVHV  
IVHPESPMPV VDAADSSGST DFIVKAIQAA PAGSTFAIGT EINLVQRLAA QYPQHTIFCL  
DPVICPCSTM YRIHPGYLAW ALEELVAGNV INQISVSESV AAPARVALER MLSVVPAPV  
TPSSSKDA

> RXA02112 (1-837, translated) 279 residues  
MTTHIDRIVG AALSEDAPWG DITSDFIPG SAQLSAKVVA REPGVFSGQA LLDASFRLVD  
PRINASKVA DGDSFETGDI LGTITGSARS ILR SERIALN FIQRTSGIAT LTSCYVAEVK  
GTKARIVDTR KTTPLGRIIE RQAVRDGGGF NHRATLSDAV MVKDNHLAAI ASQGLSITEA  
LSNMKAKLPH TTHVEVEVDH IEQIEPVIAA GVDTIMLDNF TIDQLIEGVD LIGGRALVEA  
SGGVNLNTAG KIASTGV DVI SVGALTHSVH ALDLGLDIF

> RXA02134 (1-921, translated) 307 residues  
MSGKAGFTPE DPEDSDNRHG NPLFEGIFTA LNWMTVLPVP GASVFDRTTG ARVMASLPFV

GFVFGMFTAI IMWAIGPISG VIHVDGLLVA VLIVAFWELL NRFMHLDGLA DVSDALGSYA  
 APPRAREILA DPRTGLFGLA TAMLVLLQV AAVASLVDST VWMICFIPV LGRIAGQVTA  
 LKNHNAFSPT GFGALVIGTV KFWWIALWLL VTAALAFWCA ELISPLSPLT SVNTPFVAGP  
 FPAAINPAWL GGWVAITAVV ACVFAALFSR RLSRSFGGLN GDCIGACIHL GASISAVMFA  
 VVANAMV

> RXA02135 (1-1074, translated) 358 residues  
 MVPAELFARV EFPDHKILAQ TKDFHDSLTK PPGSLGKLEQ IGCIFISACQG QIPPRPLNNS  
 KIVVFAGDHG VATKGVSAYP SSVSLQMAEN ITNGGAINV IARTTGTSVR LIDTSLDHEA  
 WGDERSRSC GSIDVEDAMT QEQVERALKI GKRIADQEV D AGADILIPGD LGIGNTTTAA  
 ALVGTFTLAE PVVVVGRGTG IDDEAWKLKV SAIRDAMFRA RDLRQDPIAI ARKISSPDLA  
 AMAAFIAQAA VRRTPVLLDG VVVTAALLA NKLAPGARRW FIAGHRSTEP AHSVALNALA  
 LDPILELGMS LGEESGAATA LPLVKIAVDL MNDMSTFSSA GVDGPLNASS EAPEQNT

> RXA02136 (1-522, translated) 174 residues  
 MRTVLVGGAR SGKSAFAESL VGSGPVLYVA TARPSGDDPE FAERIAVHAE RRPTSWVLDE  
 EGDVDKLLAS PPAMPVLVDD LGTWLTHATD ACDGWEASSA QLEAKMDLLI DAILHFQGED  
 LVIVSPEVGM GIVPEYKSGR LFRDRIGTLN QRVAICERV VFVVGAGLPLE LKTF

> RXA02139 (1-1839, translated) 613 residues  
 MRHRGPDDAG TWHADAAFG FNRLSIIDIA HSHQPLRWGP ADEPDYAMT FNGEIYNYVE  
 LRKELSDLGY AFNTSGDGEP IVVGFHHWGE SVVEHLRGMF GIAIWDTKKEK SLFLARDQFG  
 IKPLFYATTE HGTVFSSEKK TILEMAEEMN LDLGLDKRTI EHYVDLQYVP EPDTLHAQIS  
 RLESGCTATV RPPGKLEQKR YFKPQFPVQK VVKGKEQDLF DRIAQVLEDS VEKHMRAVD  
 VGSFLFGGID STAI AALAKR HNPDLTFTT GFEREGYSEV DVAAESAAAI GAHIVKIVS  
 PEEYANAIPK IMWYLDPPVA DPSLVPLYFV AAEARKHVKV VLSGEGADEL FGGYTIYKEP  
 LSLAPFEKIP SPLRKGLGKL SKVLPDGMKG KSLLEGRSMT MEERYGNAR SFNFEQMQRV  
 IPWAKREWDH REVTAPIYAO SRNFDPVARM QHLDLFTWMR GDILVKADKI NMANSLELRV  
 PFLDKEVFKV AETIPYDLKI ANGTTKYALR RALEQIVPPH VLHRKKLGFP VPMRHWLAGD  
 ELFGWAQDTI KESGTEDIFN KQAVLDMLNE HRDGVSDHSR RLWTVLSFMV WHGIFVENRI  
 DPQIEDRSYP VEL

> RXA02153 (1-780, translated) 260 residues  
 MIMHNVYGV MTIKVAIAGA SGYAGGEILR LLLGHPAYAS GELEIGALTA ASTAGSTLGE  
 LMPHIPQLAD RVIQDTTAET LAGHDVVFLG LPHGFSAEIA LQLGPDVTVI DCAADFRLQN  
 AADWEKFYGS EHQTWPYGI PEMPGRHREAL RGAKRVAVPG CFPTGATLAL LPAVQAGLIE  
 PDVSVSITG VSGAGKKASV ALLGSETMGS LKAYNTSGKH RHTPEIAQNL GEVSDKPVKV  
 SFTPV LAPLP REFSPLQPHL

> RXA02154 (1-291, translated) 97 residues  
 LKEGVTAEQ RAVYEEFYAQ ETFVHVLPEG AQPQTQAVLG SNMCHVQVEI DEEAGKVLVT  
 SAIDNLTGKT AGAAVQCMNL SVGFDEAAGL PQGVAP

> RXA02155 (1-1164, translated) 388 residues  
 MAEKGITAPK GFVASATTAG IKASGNPDMA LVVNQGPEFS AAVFTRNRV FAAPVKVSRE  
 NVADGQIRAV LYNAGNANAC NGLQGEKDAR ESVSHLAQNL GLESDIGVC STGLIGELLP  
 MDKLNAGIDQ LTAEGALGDN GAAAAKAIMT TDTVDKETV FADGWTVGGM GKGVGMMAPS  
 LATMLVCLTT DASVTQEMAQ IALANATAVT FDTLDIDGST STNDTVFLLA SGASGITPTQ  
 DELNDAVYAA CSDIAAKLQA DAEGVTKRVA VTVVGTNNE QAINAARTVA RDNLFKCAMP  
 GSDPNWGRVL AAVGMADADM EPEKISVFFN GQAVCLDSTG APGAREVDLS GADIDVRIDL  
 GTSGEGQATV RTTDLFSFSY EINSAYSS

> RXA02156 (1-951, translated) 317 residues  
 MNDLIKDLGS EVRANVLAEA LPWLQHFRDK IVVVKYGGNA MVDDDLKAAF AADMVFLRTV  
 GAKPVVVHGG GPQISEMLNR VGLQGEFKGG FRVTTPEVMD IVRMVLFGQV GRDLVGLINS  
 HGYPYAVGTSG EDAGLFTAQK RMVNIDGVPT DIGLVGDIIN VDASSLMDII EAGRIPVVST  
 IAPGEDGQIY NINADTAAGA LAAAIGAERL LVLTNVEGLY TDWPKSSLV SKIKATELEA  
 ILPGLDSGMI PKMESCLNAV RGGVSAAHVI DGRIAHSVLL ELLTMGGIGT MVLDPDVFDR  
 NYPEGTVFRK DDKDGEL

> RXA02157 (1-1173, translated) 391 residues

MSTLETWPQV IINTYGTTPV ELVSGKGATV TDDQGNVYID LLAGIAVNAL GHAPPAIEA  
 VTNQIGQLGH VSNLFASRPV VEVAEELIKR FSLDDATLAA QTRVFFCNSG AEANEAAFKI  
 ARLTGRSRII AAVHGFHGR T MGSLALTGQP DKREAFPLMP SGVEFYYPYGD TDYLRKMVET  
 NPTDVAAIFL EPIQGETGVV PAPEGFLKAV RELCDEY GIL MITDEVQ TGV GRTG DFFAHQ  
 HDGVVPDVVT MAKGLGGGLP IGACLATGRA AELMTPGKHG TTFGGNPVAC AAAKAVLSV  
 DDAFCAEVAR KGELFKELLA KVDGVVDVRG RGLMLGVVLE RDVAKQAVLD GFKHGVILNA  
 PADNIIRLTP PLVITDEEIA DAVKAI AETI A

> RXA02158 (1-957, translated) 319 residues  
 MTSQPQVRHF LADDDLTAE QAEVLTAAK LKAAPFSERP LEGPKSVAVL FDKTSTRTRF  
 SFDAGIAHLG GHAIIVDSGS SQMGKGESLQ DTAAVLSRYV EAIVWRTYAH SNFHAMAETS  
 TVPLVNSLSD DLHPCQILAD LQTIVENLSP EEGPAGLK GK KAVYLG DGDN NMANSYMIGF  
 ATAGMDISII APEGFQPRAE FVERAEKRGQ ETGAKVVVTD SLDEVAGADV VITDTWVSMG  
 MENDGIDRTT PFVPYQVNDE VMAKANDGAI FLHCLPAYRG KEVAASVIDG PASKVFDEAE  
 NRLHAQKALL VWLLANQPR

> RXA02159 (1-513, translated) 171 residues  
 MSLGSTPSTP ENLNPVTRTA RQALILQILD KQKVTSQVQL SELLLDEGID ITQATLSRDL  
 DELGARKVRP DGGRAYAVG PVDSIAREDL RGPSEKLRRM LDELLVSTDH SGNIAMLRTP  
 PGAAQYLASF IDRVLKEVV GTIAGDDTVF VLARDPLTGK ELGELLSGRT T

> RXA02160 (1-1203, translated) 401 residues  
 MTNRIVLAYS GGLDTTVAIP YLKKMIDGEV IAVSLDLGQG GENMDNVRQR ALDAGAAESI  
 VDAKDEF AE EYCLPTIKAN GMYMKQYPLV SAISRPLIVK HLVEAGKQFN GTHVAHGCTG  
 KGNDQVRFEV GFMDTDPNLE IIAPARDFAW TRDKAIAFAE ENNVPIEQSV KSPFSIDQNV  
 WGRAIETGYL EDLWNAPTKD IYAYTEDPAL GNAPDEVIIS FEGGKPVSID GRPVSVLQAI  
 EELNRRAGA QGVGR LDMVED RLVGIKSREI YEAPGAIALI KAHEALEDVT IERELARYKR  
 GVDARWAEV YDGLWFGPLK RSLDAFIDST QEHVTGDIRM VLHAGSITIN GRRSSHSLYD  
 FNLATYDTGD TFDQTLAKGF VQLHGLSSKI ANKRDREAGN N

> RXA02161 (1-783, translated) 261 residues  
 MEQHGTNEGA LWGGRFSGGP SEAMFALSVS THFDWVLAPY DVLASKAHAK VLHQADLLSD  
 EDLATMLAGL DQLGKD VADG TFGPLPSDED VH GAMER GVI DRVGP EVGGR LRAGRSRNDQ  
 VATLFRMWVR DAVRDIALGT TELVDALSAQ AKAHAGAIMP GKTHFQAAQP VLLAHQLLAH  
 AQPLLRDIDR IRDLDKRLAV SPYGS GALAG SSLKLNPEAI AEELGFDSAA DNSIDATSSR  
 DFASATAFVL AQLAXGYVPL G

> RXA02162 (1-663, translated) 221 residues  
 MSRLAEIIIA WCTPEFGYIT LSDSWSTGSS IMPQKKNPDV AELTRGKSGR LIGNLTGLLA  
 TLKAQPLAYN RDLQEDKEPI VDSVAQINLL LPAMTGLVST LTFNTERMRE LAPAGFTLAT  
 DLAEMWVRQG VPFREAHEAS GACVRIAESR GVDLIDL TDE ELSGVDARLT PEVREVL TID  
 GAVASRATRG GTAGVRVAEQ RARVDAASTA HAEWARAGVR R

> RXA02176 (1-1128, translated) 376 residues  
 MTDFPTLPSE FIPGDGRFGC GPSKVRPEQI QAIVDGSASV IGTSHRQPAV KNVVGSIREG  
 LSDLFSLPEG YEIILSLGGA TAFWDAATFG LIEKKSGHLS FGEFSSKFAK ASKLAPWLDE  
 PEIVTAETGD SPAPQAFEGA DVIWAHNET STGAMVPVLR PEGSEGSLVA IDATSGAGGL  
 PVDIKNSDVY YFSPQKCFAS DGGLWLAAMS PAALERIEKI NASDRFIPEF LNLQTAVDNS  
 LKNQTYNTPA VATLLMLDNQ VKWMNSNGGL DGMVARTTAS SSALYNWAEA REEASPYVAD  
 AAKRSLVVG TIDFDDSIDAA VIAKILRANG ILDTEPYRKL GRNQLRIGMF PAIDSTDVEK  
 LTGAIDFIELD GGFARK

> RXA02189 (1-738, translated) 246 residues  
 VDAADYHERH PSYLGTD SAH GEFYWCPEML HEKDVRLLGT PAALSGKKIL EIGCGSAPCA  
 RWLANDVPNA FVTAFDISSQ MLKYAGHDHN VHLVQADAMS LPYADSSFDV VFSVFGAIPF  
 VEDSAALMKE IARVLKPGGR LIFSITHPMR WIFLDDPGPA GLTAITSYFD QRGYVEEDEE  
 TGALSYAEQH RTMGARINEL IDASLHLDHL IEPEWPDELE ENWQWSPLR GKLFPGTAIF  
 LATYRP

> RXA02193 (1-1578, translated) 526 residues  
 MSKTSNKSSA DSKNDAKAED IVNGENQIAT NESQSSDSAA VSERVVEPKT TVQKKFRIES

DLLGELQIPS HAYYGVHTLR AVDNFQISRT TINHVPDFIR GMVQVKKAAA LANRRRLHTLP  
 AQKAEAIVWA CDQILIEERC MDQFPIDVFQ GGAGTSLNMN TNEVVANLAL EFLGHEKGEY  
 HILHPMDDVN MSQSTNDSYP TGFRLGIYAG LQTLIAEIDE LQVAFRHKGN EFVDIIKMGR  
 TQLQDAVPMS LGEEFRAFAH NLAEETQTVLR EAANRLLEV N LGATAIGTGV NTPAGYRHQV  
 VAALSEVTGL ELKSARDLIE ATSDTGAYVH AHS AIKRAAM KLSKICNDLR LLSSGPRAGL  
 NEINLPPRQA GSSIMPAKVN PVIPEVVNQV CFKVFGNDLT VTMAAEAGQL QLNVMPEVIG  
 ESLEFQSLRIL GNAAKTLREK CVVGITANAD VCRAYVDNSI GIITYLNPFL GHDIGDQIGK  
 EAAETGRPVR ELILEKKLMD EKTLEAVLSK ENLMHPMFRG RLYLEN

> RXA02194 (1-843, translated) 281 residues

MLKIAVPNKG SLSERAMEIL AEAGYAGRGD SKSLNVFDEA NNVEFFFLRP KDIAIYVAGG  
 QLDLGITGRD LARDSQADVH EVLSLGFGSS TFRYAAPADE EWSIEKLDGK RIATSYPNLV  
 RDDLAARGLS AEVLRLDGAV EVSIKLGVAI AIADVSTGR TLRQOGLAPF GEVLCTSEAV  
 IVGRKDEKVT PEQQILLRRI QGILHAQNFL MLDYNVDRDN LDAATAVTPG LSGPTVSPLA  
 RDNWVAVRAM VPRRSANAIM DKLAGLGAEA ILASEIRIAR I

> RXA02195 (1-270, translated) 90 residues

MYRVKTFDSL YEELLNRAQT RPEGSGTVAA LDKGIHHLGK KVIEEAGEVW IAAEYETDEE  
 LAGEISQLIY WTQVIMVARG LKPEDIYKNL

> RXA02197 (1-528, translated) 176 residues

AERMRFSPFR QQRGRFLCIA DFIRPREQAV KDGQVDVMPF QLVTMGNPIA DFANELFAAN  
 EYREYLEVHG IGVQLTEALA EYWSRVRSE LKLNDGGSVA DFDPEDKTKF FDLDIRGARF  
 SFGYGSCPDL EDRAKLVELL EPGRIGVELS EELQLHPEQS TDAFVLYHPE AKYFNV

> RXA02198 (1-2478, translated) 826 residues

MSTSVTSPAH NNAHSSEFLD ALANHVLI GD GAMGTQLQGF DLDVEKDFLD LEGCNEILND  
 TRPDVLRQIH RAYFEAGADL VETNTFGCNL PNLADYDIAD RCRELAYKGT AVAREVADAM  
 GPGRNGMRRF VVGS LGPGTK LPSLGHPYA DLRGHYKEAA LGIIDGGGDA FLIETAQDLL  
 QVKA AVHGVQ DAMAELDTFL PIICHVTVET TGTMLMGSEI GAALTALQPL GIDMIGLNCA  
 TGPDEMSEHL RYLSKHADIP VSVMPNAGLP VLGKNGAEYP LEAEDLAQAL AGFVSEYGLS  
 MVGGCCGTTI EHIRAVRDV VGVPEQETST LTKIPAGPVE QASREVEKED SVASLYTSVP  
 LSQETGISMI GERTNSNGSK AFREAMLSGD WEKCVDIKQ QTRDGAHMLD LCVDYVGRDG  
 TADMATLAAL LATSSTLPIM IDSTEPEVIR TGLEHLGGRS IVNSVNFEDG DGPESRYQRI  
 MKLVKQHGA VVALTIDEEG QARTAEHKVR IAKRLIDDIT GSYGLDIKDI VVDCLTFPIS  
 TGQEETRRDG IETIEAIREL KKLYPEIHTT LGLSNISFGL NPAARQVLNS VFLNECIEAG  
 LDSAIAHSSK ILPMNRIDDR QREVALDMVY DRRTEDYDPL QEFMQLFEGV SAADAKDARA  
 EQLAAMPLFE RLAQRIIDGD KNGLEDDLEA GMKEKSPIAI INEDLLNGMK TVGELFGSGQ  
 MQLPFVLQSA ETMKTAVAYL EPFMEEAEAE TGSQAQEGKG KIVVATVKGD VHDIGKNLVD  
 IILSNNGYDV VNLGIKQPLS AMLEAAEEHK ADVIGMSGLL VKSTVV

> RXA02208 (1-1002, translated) 334 residues

LGVDVGAPL NRTMEKIIAV HDDSLSQEVF GVTFFRPLGL AAGFDKNASM ADAWGAVGFG  
 YAELGTVTAF PQPGNPTPRL FRLPADKAIL NRMGFNNLGA AEVAKNLRNR KSTDVIGINI  
 GKTKVVP AEH AVDDYRRSAS LLGDLADYLV VNVSSPNTPG LRDQLAVESL RPILAAVQES  
 TTVPVLVKIA PDLSDDEDIDA VADLAVELKL AGIVATNTTI SREGLNTPSG EVEAMGAGGI  
 SGAPVAARSL EVLKRLYARV GKEMVLISVG GISTPEQAW E RITSGATLLQ GYTPFIYGGP  
 DWIRDIHLGI AKQLKAHGLR NIADAVGSEL EWKN

> RXA02229 (1-825, translated) 275 residues

LTIPFAKSHA TENDFIIIPD EDARLDLTPE MVVTLCRRRA GIGADGILRV VKAADVEGST  
 VDPSLWFMDY RNADGSLAEM CGNGVRLFAH WLYSRGLVDN TSFDIGTRAG VRHVDILQAD  
 QHSAQVRVDM GIPDVTGLST CDINGQVFAG LGVDMGNPHL ACVVPGLSAS ALADMELRAP  
 TFDQEFFPHG VNVEIVTELE DDAVSMRVWE RGVGETRSCG TGTVAACAA LADAGLGEGT  
 AKVCVPRGEV EVQIFDDGST LTGPSAIIAL GEVQI

> RXA02234 (1-3198, translated) 1066 residues

GSNPATIMTD PEMADHTYVE PIEPEYIDKI FAKEIEQGHP IDAVLATLGG QTALNAAIQL  
 DRLGILEKYG VELIGADIDA IERGEDRQKF KDIVTTIGGE SARSRVCHNM EEVHETVAEL  
 GLPVVVRPSF TMGGLGSLA YNTEDLERIA GGGLAASPEA NVLIEESILG WKEFELELMR  
 DTADNVVIC SIENVDALGV HTGDSVTVAP ALTLTDFEFQ KMRDQGI AII REVGVDTGGC

NIQFAINPVD GRIITIE MNP RVSRSSALAS KATGFPIAKM AAKLAIGYTL DEITNDITGE  
 TPAAFEPTID YVVVKAPRFA FEKFVGADDT LTTTMSVGE VMSLGRNYIA ALNKALRSLE  
 TKQQGFWTKP DEFFAGERAT DKA AVL EDLK RPTEGRLYDV ELAMRLGASV EELYEASSID  
 PWFLAELEAL VQFRQKL VDA PFLNEDLLRE AKFMGLSDLQ IAALRPEFAG EDGVRTLRSL  
 LGIRPVFKTV DTCAA EF EAK TPHYHSAYEL DPAAESEVAP QTEREKVLIL GSGPNRIGQG  
 IEFDYSCVHA ALELSRVGYE TVMVNCNPET VSTDYDTADR LYFEPLTFED VMEVYHAEAQ  
 SGTVAGVIVQ LGGQTPLGLA DRLKKAGVPV IGTSP E AIDM AEDRGEFGAL LNREQLPAPA  
 FGTATSFEA RTVADEISYP VLVRPSYVLG GRGMEIVYDE ASLEDYINRA TELSSDHPVL  
 VDRFLDNAIE IDVDALCDGD EVYLAGVMEH IEEAGIHS GD SACALPPMTL GAQDIEKVRE  
 ATKKLALGIG VQGLMNVQYA LKDDILYVIE ANPRASRTVP FVSKATGVNL AKAASRIAVG  
 ATIKDLQDEG MIPTEYDGG S LPLDAPIAVK EAVLPFNRF RPDGKTLDTL LSP E MKSTGE  
 VMGLANNFGA AYAKAEAGAF GALPTEGTVF TVVANRDKRT LILPIQRLAL MG YKILATEG  
 TAGMLRRNGI ECEVVLKASD IREGVEGKSI VDRIREGEVD LILNTPAGSA GARHDGYDIR  
 AA AVTVGVPL ITTVQGVTA VQGIEALREG VVSVRALQEL DHAVKA

> RXA02235 (1-834, translated) 278 residues  
 MTFGEKLLNA ASTRGRLCVG IDPHESLLTS WGLPVNV DGL AEF SRACVEA FADTVALVKP  
 QVAFYERFGS AGFAILEETI QTLRERGCLV VSDAKRGDIG STMAGYASAW LDPASPLSSD  
 AVTVSPYLG F HSLDPVFELA EQHGRGVFVL AATSNPEARE LQDQONADGV SISQQIVDQA  
 AALNAPYMAQ GKAGNIGVVI GATLSKPPRL STLGGAILMP GVGAQGGTAS DVDEIAGDMA  
 HLAFPNVRS ILATGPDI AE MKNSVAKNAA DFPGFPRS

> RXA02237 (1-570, translated) 190 residues  
 VSGDNQLGRL VILAGPSAVG KSTVVDR LRN DVPNLYFSVS MTTRAPRPGE VDGRDYFYVT  
 AQEFQDKIDC GEMLEWADIH GGLQRSGTPA GPVNEARQNG RPYLVEVDLA GARNIASLIP  
 DAETIFLAPP SWEVLVERLT GRGTESEDVI ARRLETAREE LAAQSEFKHV IINDVDVTAV  
 KAIEDVLLGA

> RXA02239 (1-1266, translated) 422 residues  
 VPMTHVSSPS APRNVVVGVA GGIAAYKACH IVRAFKEAGD NVRVVPTE SA LKFVVGKATFE  
 ALSGNPVSTT VFDAVDSVQH VKVGQ EADLI VIAPATADLM ARVVAGLGDD LLAATLLVAT  
 CPVVIAPAMH TEMWFNPATV ANVATLRQRG ITVIEPAHGR LTGKDTGPGR LPDPEQIVDL  
 ANAVHAGARL PQDLAGKKVL ITAGGTHEHI DPVRFIGNSS SGRQGFALGE IAAQRGAHVS  
 IVAGNAAELP TPAGAEIVPV VSTQDMF DAV QERAGQSDFI VMAAAVADFT PASQATSKLK  
 KGSDSDEDAL STISLVENPD ILATTVKRRE AGE L DSNPVI VGFAAETGDE HTTALEYARK  
 KLQKKGC DLL MCNEVGMGKV FGQKHNEGWI LDAHGGVVDV EHGSKIEVAA QIWDAAALAYR  
 EV

> RXA02240 (1-1221, translated) 407 residues  
 VAQPTAVRLF TSESVTEGHP DKICDAISDT ILDALLEKDP QSRVAVETVV TTGIVHVVG E  
 VRTSAYVEIP QLV RNK LIEI GFNSSEVGFD GRTCGVS VSI GEQSQEIADG VDNSDEARTN  
 GDVEEDDRAG AGDQGLMFGY ATNETEEYMP LPIALAHRLS RRLTQVRKEG IVPHLRPDGK  
 TQVTFAYDAQ DRPSHLDTVV ISTQHDPEVD RAWLETQLRE HVIDWVIKDA GIEDLATGEI  
 TVLINPSGSF ILGGPMGDAG LTGRKII VDT YGGMARHGGG AFSGKDPSKV DRSAAYAMRW  
 VAKNIVAAGL ADRAEVQVAY AIGRAKPVGL YVETFDTNKE GLSDEQIQAA VLEVFDLRPA  
 AIIRELDLLR PIYADTAAYG HFGRTDL DLP WEAIDRVDEL RAALKLA

> RXA02246 (1-984, translated) 328 residues  
 MDVAHALDLA HHVSDQVRGT TSPNPPVGAV ILDADGEVVG VGATAPPGGP HAEVVALAAA  
 GVRANGGTAV VTLEPCNHYG RTGPCSKALL DAGIAHV FYA NADPFPSAAG GGAFLAEAGV  
 DTHFLDERIR ALEPWL VATR LGRPHVTLKF ASTVDGFAGA TDGTSQWITG PDARAFVHED  
 RSKRDAIIVG TGTALTDNPS LTARTDTGLY ENQPRRVVIG SREVPADSNL ARLGYEQYAG  
 IPEALSALWD KGCRDILIEG GPTLAGAALR LGIVDQVQAY VAPALLGAGR SVINWPQETT  
 MDQIMRFDTT SVRQLGSDVL IEMMRKEH

> RXA02247 (1-633, translated) 211 residues  
 MFTGIVEELG SVAGVEHLGD SIRMQISAST VLEGVHLGDS ISVNGVCLTV ASFGEGHFTA  
 DLMQETLDRS SLGALSTGSK VNLERAMAAD GRLGGHIMQG HVDATTSLIK RTSSSENWDVL  
 RFELPADLAR YVVEKGSIAL NGTSLTVSSL GDDWFEVSLI PTTLRDTHHG ELAVGDIVNI  
 EVDVIAKYVE RMMTRGVAGN TPNDYTDFT R D



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> RXA02248 (1-1266, translated) 422 residues
VSEHEQAHSQ LDSVEEAIAD IAAGKAVVVV DDEDRENEGD IIFAAELATP ELVAFMVRYS
SGYICAPLTA KDADRLDLPP MTAHNQDARG TAYTVTVTDAN TGTTGISATD RAHTLRLLAD
PEADRTDFTR PGHVVLPLRAR EGGVLVRAGH TEAAVDLARA AGLRPAGVIC EVVSEEDPTG
MARVPELRRF CDEHDLKLIS IEQLIEWRRK NEILVERQVE TVLPTDFGTF KAVGYRSIID
GTELVAIVAG DVASDGGENV LVRVHSECLT GDVFGSRRCD CGQQLHESLR LIQEAGRGVV
VYMRGHEGRG IGLLAKLRAY QLQDEGADTV DANLALGLPA DAREFGTSAQ ILYDLGVRSR
NLISNNPAKK VGLEGHGISI ASRTPIPVAV HEDNVRYLKT KRDRMGHDLP DVALWEQEHF
EN

> RXA02249 (1-477, translated) 159 residues
MAKEGLPAVE LPDASGLKVA VVTARWNAEI CDRLHKHA VD AGRAAGATVS EYRVIGALEL
PVVVQELART HDAVVALGCV VRGGTPHFDY VCDVTEGLT RIALDTSTPI GNGVLTNTTE
EQAVERSGGE GSVEDKGAEA MVAALDTALV LSQIRATEG

> RXA02250 (1-579, translated) 193 residues
VTTNAPDGAT NNINNAHSGA VGKPKVQLSD AEIQEYTA AF AGTTTTKPWE LEVTTKFLKK
IAWVAVVVIM AVHIFMGAVV DVDFTGAAVT FVDTLAFPAL GIIFSVLVFL GLTRPRVRAN
EDGVEVRNFI GTRFYPWVVI YGMSFPKGSS VARLELPDFE FVPMWAFQSR DGEDVVRAVA
TFRDLENKYM PED

> RXA02262 (1-1146, translated) 382 residues
MTATYTTTETA INFLFLSEPD MIAAGVKDVA QCVDVMEETL VLLAQGDYKM AGLNSNSHGA
MITFPENPEF EGMPKDGPD RFMAMPAYLG GRFKNTGVKW YGSNAENKAS GLPRSIHTFV
LNDTVTGAPK AIMSANLLSA YRTGAVPGVG VKHLAVADAT TLAVVGPVGM AKTITEACIA
ERPGITTIKI KGRSERGINA FATWALEKFP EIEVVAVGSE EDVVKDADIV IAATTTDAAG
SSAFPYFKKE WLKPGALLLL PAAGRFD DAY LLDDARLVVD YMGLYEAWAE EYGPQAYQLL
GIPGTHWYDL ALQ GKLDLAK ISQIGDICS G KLPGRNTDEE IILYSVGGMP VEDVAWATQV
YENALEKGVG TTLNLWESPA LA

> RXA02263 (1-360, translated) 120 residues
MKIAVIGLGS TGSMALWHL S NIPGVEAIGF EQFGISHGYG AFTGESRLFR MAYHEGSTYV
PLLKRARALW SSLSEISGRE LFHNFGVLST GKEDEAPFQR LVESVERYEL PHERLTAAQM

> RXA02272 (1-1245, translated) 415 residues
VRITNAQVKN YAE LVDITIE GEKISSITPS SIRSEEDHRA DDYDAAGRLV APQFAEAHIH
LDYANTAGIP RENSSGTLFE AIEIWADRKT QGFHIKEDIK AKALQAARRA AEHGVGFIRT
HVDVTDPTFA GF EAIAELRD EVREWC DIQI VAFPQNGIYA YEGGQKLISD AMSAGADVVG
GIPHLEPTRD DGVESVKWLF DLAEKHSAPI DIHTDEIDDP HSRFVEVLAA EAAKRD MGAQ
TVVSHSVAMA YYSPGYMARL LPKLAASKVR FAVCPNENLH LQGLGFQGPV PRGVAPVKQL
TEWGIPVSFC QDSLNDPFYP MGDGDLRL IL DSGLHVSHML TASHLKNALS FITNPAGNL
GLDNYDIAEN SPANLLVLDA SSEKEAVQRK ASVLLSIHRG KKVLSREPEQ VDWN I

> RXA02281 (1-1068, translated) 356 residues
VQKDSVVRME ATTIDDAIAK LIDIYDTSTK LAKETLNNED YAAYADVVPY KLTVDVLEWK
PIDRTEPFY VDRAGRY SAT LSKPRVIERY LREQLERLTS NYPCKIYVSE SDIRIPPEYI
RGAPSATEAR RAGDVADIIP RPTLDEVHDA IIDGDWHAFN GP ELPLFHFG PQRFDIACAR
IEHYTGINVE HVQKYILFTN YAMHTTEFVH FAMSELTSED SRYVGLSLPN GQVIDRETAT
SLGTETLDLT SRFQMPRYDL ITEAGDGITI INIGVGPSNA KTITDCLAVL RPEAWVMIGH
CAGMDARMRI GDLILGNAYQ REDHILNTRI PLGNPIPAIP EIQKALEASV DEIYGS

> RXA02284 (1-3024, translated) 1008 residues
MTSMNLPIEL ATLSDAQAVDK VRSWLEYSK ESVPNADAKR LAAVLQDPNG LEFTVGFVDR
VVRTEDREAA AHALYELGKI APSTMSFLDR AQIQAGSLVG RALPQVVVPA ARARIRQMGV
HMIVDARDKQ FAKAVAEIQS DGHRLNINLL GEAVLGRKEA AKHLDDTVRL LRRPDVEYVX
XXXSSVASQI SMWGFEDTVN YVVEQLTPLY IEPARAPKGT KFINLDMEEY RDLRLTMEVF
KRLLSNPELH ELEAGIVLQA YLPDALGAIQ DLAQFGRERV NTGGAGVKVR LVKGANLPME
HVHAQITGWP VATEPSKQAT DANYKRVLYW TMRKENMEGL RLG VAGHNLF DIAFAHLLSV
ERGVADRVEF EMLQGMASDQ ARAVSVDVGE LLLYVPAVRP QEFDV AISYL VRRLEENAAS
ENFMSAIFDL DADNPSFKRE ESRFRASISD LATLIDVPAP GPNHTQDRSK ETLLDAPLVP
FINEPDTNPA LIQNQQWATK AVATAAE PGW LEKQTKPEVL EEGDV DKLIN DVRDAAEAWA

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ARPARERAEI LYKTAEILRV RRGHLISVTA AEVGKAVEQT DPEISEAIDF ARYYAHLALE
LDDVDNAEFT PDRVVVVTPP WNFPIAIPAG STFAALAAGA GVIHKPSKPS QHCSAAVVEA
LWEAGVPREV LHCIYPANRD VGCALISHEH VDRVILTSS ETAAMFSSWR PELTINGETS
GKNAIVVTPS ADRDLAVADL VKSAFGHAGQ KCSAASLGIL VGSVYESERF RKQLVDAASS
LIVDWPTNPS ATVGPLTELP SDKLHHALTT LEEGESWLLK PRQLDDTGRL WSPGIKEGVK
PGTFFHLETV FGPVLGLMKA TDLNEAIEFQ NGNDFGLTGG LQSLDADEV R TWLDHVDVGN
AYVNRGITGA IVQRQSFEGW KKSSVGLGSK AGGPNYVMLM GTWADAPSHH APRETNPLIS
KLDLPGEELE WLEKANASDE TAWNTEFGSP RDPSSGLDVEA NIFRYRPA

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> RXA02299 (1-408, translated) 136 residues
MLRTILGSKI HRATVTQADL DYVGSVTIDA DLVHAAGLIE GEKVAIVDIT NGARLETYVI
VGDA GTGNIC INGAAHLIN PGDLVIIMSY LQATDAEAKA YEPKIVHVDA DNRIVALGND
LAEALPGSGL LTSRSI

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> RXA02311 (1-690, translated) 230 residues
VAKADLDKDP FDVASMFDV GKNYDLTNTV LSFGQDRVWR KRTRQRLDLK PGEKVLDLAA
GTAVSTVELA KSGAFCVACD FSQGMALAGK DRDVSQVVD GMQLPFADNS FDAVTISYGL
RNIHDFRAGL KEMARVTKPG GRLTVAEFST PVIPVFGTVY KEYLMRLLPQ AARAVSSNPE
AYIYLADSIR AWPSQAEAR EINQNGWSDC GWQNLTFGIV ALHSAIKPEN

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> RXA02315 (1-1629, translated) 543 residues
MSSTPAQDLA RAVIDSLAPH VTDVVLCPGS RNSPLSLELL ARQDLRVHVR IDERSASFLA
LSLARTQARP VAVVMTSGTA VANCLPAVAE AAHAHIPLIV LSADRPAPHLV GTGASQTINQ
TGIFGDLAPT VGITELDQVA QIAESLAQGA SQIPRHFNL LDVPLVAPEL PELHGEAVGA
WTHRWINH G EVTVDLGEHT LVIAGDEAW VEGLEDVPTI AEPTAPKPYN PVHPLAAEIL
LKEQVSAEGY VVNTRPDHVI VVGHP TLHRG VLKLMSPDGI KLTVLSRTDI ITDPGRHADQ
VGSTVKVTGT QEKQWLKICS AASELAADGV RDVLNDQEF FTGLHVAAAV ADTLGTGDTL
FAAASNSIRD LSLVGMFPDG VDTFSPRGVA GIDGSAQAI GTSLAVQSRH PDEIRAPRTV
ALLGDL SFLH DIGGLLIGPD EPRPENLTIV VSNDNGGGIF ELLETGADGL RPNFERAFGT
PHDASIADLC AGYGIEHQVV DNLQDLIAL VDTTEVSGFT IIEASTVRDT RRAQQQALMD
TVH

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> RXA02318 (1-279, translated) 93 residues
MNSLFDVSPH WSSANAKLTA HFNTGKFSTG MKFVNLIADS AEEANHHPII LLTYGFVEIT
LTSHDVGEIT DRDVALAKVI DAHAKTALIS AEA

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> RXA02319 (1-957, translated) 319 residues
MSNYSTDNPF DPTQWATVPG FEEFTDITYH RHVGTTRADG IVRIAFDRPE VRNAFRPHTV
DELYQALDHA RRTPDVGTIL LTGNPSEKD GGWAFCSGGD QRIRGRSGYQ YATEHARDDA
TADVFTVDIA RTKVEGGRLH ILEVQRLIRT MPKVVIIVVN GWAAGGGHSL HVVCDLTIAS
RQEARFKQTD ADVGSFDAGY GSAYLAKMVG QKNAREIFFL GR TYDAERMQ QMGAVNIVAD
HGDLEKEAIQ AAREINTKSP TGQRM LKFAF NLTDG LMGQ QVFAGEATRL AYMTDEAVEG
KEAFLEKREP NWNEFPYY

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> RXA02345 (1-810, translated) 270 residues
FAAIESVEDA VGFFEAVDQ VCLKARRGGY DGKGVWFPAD VAEQLSLVAE LLDGGTPLMA
EKKVALNREL SAMVARTPSG ETKAWPVVES VQKNGVCAEA IAPAPELSAE LQESTRGLAQ
KIATELGVTG VLAVELFETL DQNGQPEIFV NELAMRSNT GHWTQDGCVT SQFEQHLRAV
LDYPLGATDT LADYTVMANV LGADTDPEMP MATRMVEVGR KYPDAKIHLY GKGRHPGRKI
GHVNMVGS DL EKTRAEALAC AYFLVNARWD

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> RXA02346 (1-123, translated) 41 residues
VGPLVGLIMG SDSWDVTVAP AAELVAEFGI PFEVGVVSAH R

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> RXA02350 (1-210, translated) 70 residues
LDSLLSIVQM PGGVPVATVS IGGAKNAGLL AVRILGAGDP SLVTKMADYQ
ENMAKEVEAK DEALKKRLLG

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> RXA02373 (1-915, translated) 305 residues
MSVVG TGLFF GSPEEERDKL MQSLMDQKNK LSKSEGIPLV TLNDGKTIPQ LGFGVFKVDP
DEAERVVTEA LEVGYRHIDT AAIYGNEEGV GRAIAKSGIP REELFITTKL WNDRHLDVEA

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AFEESLQKLG LDYVDLYLVH WPAPKNDNYV AAWKGLEKLG DRARSIGVCN FLPEHLEKLL  
 AEATTVPAIN QIELHPALQQ RDAVEASLAA GITVESWGPL GQGRFDLGAE EPIAAAAKNH  
 GKTPAQVVIR WHLQNGFVVF PKTVTKSRMV ENIDVDFEL SDEEMAAITA LERNDRGGSH  
 PNDLN

> RXA02375 (1-1227, translated) 409 residues

MAPVTGLPVT PYSQEASIGA SFPVDPDTK DSAAYGHESG MRERISNAKR VVVKIGSSSL  
 TNDEDGHTVD PNRINTIVNA LQARMEAGSD LIVVSSGAVA AGMAPLGLST RPTLAVKQA  
 AAAGVQVHLM HQWGRSFARY GRPIGQVLLT AADAGKRDRA RNAQRTIDKL RILGAVPIVN  
 ENDTVATTGV NFGDNRLAA IVAHLVSADA LVLLSDVDGL FDKNPTDPTA KFISEVRDGN  
 DLKGVIAAGDG GKVGTGGMAS KVSARLASR SGVPVLLTSA ANIGPALEDA QVGTVFHFKD  
 NRLSAWKFWA LYAADTAGKI RLDDGAVEAV TSGGKSLAV GITEIIGDFQ QGEIVEILGP  
 AGQIIGRGEV SYSDTLQSM VGMQTQDLDP GMQRPVVHAD YLSNYASRA

> RXA02378 (1-609, translated) 203 residues

MSSTTLTDDQ IRDNERTVL AKATAAKNIV PDI AVLGTGP KNAILRAAAD ELVARSAEII  
 EANASDIEAG RANGMEESMI DRLALDESRI EGIAGGLRQV AGLTDPVGEV LRGHVMENGI  
 QMKQVRVPLG VMGMVYEARP NVTVD AFGLA LKSGNVALLR GSSTAVHSNT KLVEILQDVL  
 ERFELPRETV QLLAKPADP SKI

> RXA02380 (1-654, translated) 218 residues

MTTTVKRRAR IGIMGGTFDP IHNGHLVAGS EVADRFDL DL VVYVPTGQPW QKANKKVSPA  
 EDRYLMTVIA TASNPRFMVS RVDIDRGGDT YTIDTLQDLS KQYPDAQLYF ITGADALAQI  
 VTWRDWEKTF ELAHFVGVT RPYELDGNII PEMHQDRVSL VDIPAMAISS TDCRERSSEE  
 RPVWYLVDPG VVQYIAKRQL YRPEGSDKDM DPKGQNQA

> RXA02382 (1-600, translated) 200 residues

PTIETGTGNC HFYIDAEAKL DQAIAMVING KTRRCSVCNA TETALLDAAL SDSDKLAVVQ  
 ALQEAGVTIH GRVAELEAFG ATDVVEATET DWDSEYLSFD IAVAVVDGVD GALAHIAKYS  
 TKHTEAIATQ NIETAQRFAD RVDAAAVMIN ASTAYTDGEQ YGMGAIEIGIS TQKLHARGPM  
 ALPELTSTKW ILQGTGQIRP

> RXA02400 (1-570, translated) 190 residues

MSISRTVFGI AATAALSAAL VACSPPHQQD SPVQRTNEIL TTSQNPTSAS STSTSSATTT  
 SSAPVEEDVE IVVSPAALVD GEQVTFEISG LDPEGGYAA ICDSVANPGN PVPSCGTGEMA  
 DFTSQAWLSN SQPGATVEIA EDGTATVELE ATATGTGLDC TTQACVAKVF GDHTEGFRDV  
 AEVPVTFAAA

> RXA02405 (1-771, translated) 257 residues

VNTNPSEFSS NRSTALLTDK YELTMLQAAL ADGSAERPST FEVFSRRLPN ERRYGVVAGT  
 ARVLKAIRDF VFTEEQLADL DFLDDRTLEY LRNYRFTGQV DGYREGEIYF PQSPLLTVRG  
 TFAECVILET VILSIMNADS AVASAAARMV TAADGRPIIE MGSRRTHEYS AVTASRAAYL  
 AGFSTTSNLE AAYRYGIPAS GTSAAWTL L HINDDGTPNE AAFAKQVES LGVDTTLLVD  
 TYDITQGVAT AIEVAGP

> RXA02432 (1-975, translated) 325 residues

MSKQHSTPLN NDEEHTSAPQ KVAVITTTGGT IACTSDANGH LLPTVSGADL LAPIAPRFNG  
 AQIAFEIHEI NRLDSSSMTF EDLDSIIATV HKVLEDPDVV GVVVTHGTDS MEESAIIVDT  
 FLDDPRPVIF TGAQKPFDPH EADGPNLFE ACLIASDPSA RGIGALIVFG HAVIPARGCV  
 KWHTSDELAF ATNGPEEPER PDALPVAKLA DVSVEIIPAY PGATGAMVEA AIAAGAQGLV  
 VEAMGSGNVG SRMGDALGKA LDAGIPVVM TRVPRGEVSG VYGGAGGGAT LAAKGAVGSR  
 YFRAGQARIL LAIAIATGAH PVTLY

> RXA02458 (1-1290, translated) 430 residues

MVFVSDSSIS LPIWDAPRAR GPIVSDLAIP GSKSITNRL ILAALASTPS TIIDVLRSD  
 TDLMTDGLRS LGITITEEAV DRYRVEPGQL SAGSVECGLA GTVMRFLPPV AAFADGPVHF  
 DGDPQARVRP MTSILDALRS LGVEVDNNNL PFTVNAGEVP EGGVVEIDAS GSSQFVSGLL  
 LSAPRFKNGV TVKHVGGRLP SMPHIEMTV D MLRSAGIEIE ESENQWVVHP GEILGRTWRI  
 EPDLSNATPF LAAA VTTGGT IKINHWPIKT TQPGDAIRSI LERMGCLEVEL VAQGEYDLS  
 VTGPVALKGI EIDMSDIGEL TPTVAALAAL ASTESRLTGI AHLRGHETDR LAALTAEINK  
 LGGKCTELKD GLLEIPASLH GGVWHSYADH RMATAGAIIG LAVDGVQVED IKTTSTKTFPG

FENVWEEMVG

> RXA02469 (1-1431, translated) 477 residues  
 MRFLNNSNPP YELTYSDFVM VPSRSDVGSR MSVDLRTNDG TGTTIPLVVA NMTAVAGRRM  
 AETIARRGGM AILPQDVPAD IAAETIANVK KADLVFDTPV TVKPHHTVGY ARNLIHKRAH  
 GAAIVLEGDQ PVGIVTDKDL EGADNFTQVG TLMSTSLTL PEDISPEDAF GILHEHSRKL  
 APVVAADGSL RGILTRTGAL RATMYKPAID ANGRLRVGAA IGINGDIEGR TKTLLDAGAD  
 VLVVDTAHGH QSTMISALKR IRALDVNVPI VAGNVVTADG VRDLVEAGAN IIKVGVGPGA  
 MCTTRMQTGV GRPQFSVAVLE CAAEARKLGA HVWADGGVRD PRDVALALAA GASNMVGSW  
 FSGTYESPGR LRFESDGRMY KESFGMASRR AVESRNQKVE AFEKARRAMF EEGISTARIY  
 IDKRHGGVED LVDQIISGVR SSFTYAGADS IETFFERATV GVQSTEGYAE GKPRASR

> RXA02479 (1-390, translated) 130 residues  
 VTELIQNESQ EIAELEAGQQ VALREGYLPA VITVSGKDRP GVTAFFRVL SANQVQVLDV  
 EQSMFRGFLN LAAFVGIAPR RVETVTTGLT DTLKVHGQSV VVELQETVQS SRPRSSHVVV  
 VLGDVPDALD

> RXA02497 (1-927, translated) 309 residues  
 VRLGVLDVGS NTVHLVAVDA RPPGHPTPMS NWRTPLRLVE LLDDSGAISE KGINKLTSV  
 GEAADLAKTL GCAELMPFAT SAVRSATNSE AVLDHVEKET GVRLSILSGE DEARQTFLAV  
 RRWYGWSAGR ITNLDIGGGS LELSSGTDES PDLAFSLDLG AGRLTHNWF DTPPARKKIN  
 LLRDYIDAE AEPARQMRTL GPARLAVGTS KTFRTLARLT GAAPSSAGPH VTRTLTAPGL  
 RQLIAFISRM TAADRAELEG ISSDRSHQIV AGALVAEAM RALDIDKVEI CPWALREGVI  
 LTRIDKGLE

> RXA02499 (1-810, translated) 270 residues  
 MTTIAVIGGG QIGEALVSGI IAAANMNPQNI RVTNRSEERG QELRDRYGIL NMTDNSQAAD  
 EADVFLCVK PKFIVEVLSE ITGTLDNNSA QSVVVSMAAG ISIAAMEESA SAGLPVVRVM  
 PNTPLVGKG MSTVTGGRYV DAEQLEQVKD LLSTVGDLV VAESDIDAVT AMSSGSPAYL  
 FLVTEALIEA GVNGLPLRAT AKKLAVASFE GAATMMKETG KEPSSELRAGV SSPAGTTVAA  
 IRELEESGIR GAFYRAAQAC ADRESEELGKR

> RXA02501 (1-1065, translated) 355 residues  
 MSSEGRNHNW DYAAIGTPED FLASWSASRG NLRRFFEDHA AAPINDAAQR QAGEAAATQA  
 VAAIYGMELN EFNAGVDAVA GAIESAGAIH VSIPDPDVPQ DVGAAFFDV DNTLIQSSSL  
 IVFAQGLFRK KFFTIKEILP VVWKQVKFKL TGSENADDVS RGREQALEFI KGRPVQELVD  
 LCEEIVDQRM ADKMWPGTKQ LADMHIAAGH QVWLVSATPV QLAQILAQRL GFTGAIGTVA  
 EAKDGVFTGR LVGDILHGP GRHAVAALAS IEQLDLTRCT AYSDSINDLP MLSMVGTA  
 VNPDSKLKKE AETRGWDVRD FRSIRKATRE YGIPALVTAA FSVAGWSLRR RWRKQ

> RXA02503 (1-435, translated) 145 residues  
 MTLKIGTRGS KLATTQAGTI RDQLKHYGRD AELHIVTTPG DVNMSPVERI GVGVTQALR  
 DVLHSGECDV AVHSMKDLPT ATDPRFHLV PTRADXRRXP YRXXRXXFX SXQXXRWEL  
 SAPRRISQLK AIRPDLEILP LARKH

> RXA02504 (1-438, translated) 146 residues  
 MLVMLAYAGL TRVGMQDRAT EVFDADIIMP APAQGALAIE CRADDTETVR ALNMLMHADT  
 FVSVAERTV LNRLEAGCTA PVAHAATLDG YSGDTMTLTA GUYALDGSQ LVFSAEGDGA  
 RPEELGELVA QQLIDAGAN LLGDRS

> RXA02516 (1-1263, translated) 421 residues  
 MSDFLNADGS LNVDKVREEF PILKRTVRDG KPLAYLDSGA TSQRPERVWR AEEHFVLHTN  
 APVHRGAYQL AEEATDAYEG AREKIAAFVG AEQHEIAFTK NATEALNLVA YTLGDDRSK  
 YRVQAGDTV ITELHHLN VPWQELCRRT GATLKWKYKT EDGRIDLDSL ELDETQKVA  
 FTHQSNVTGA VADVPELVRR AKAVGALTVL DACQSVPHMP VNFHELDVDF SAFSGHKMLG  
 PAGVGVYAK SPILDELPPF LTGGSMIEVV TMEGSTYAAA PQRFEAGTQM TSQVVGGLGA  
 VDMLNEIGME AIAAHEHALT AYALEKLTAI KGLTIAGPLT AEQRGGAISF GVEGIHPHDL  
 GQVLDDQGVN IRVGHHCAP VHRSMNVQST ARASFYLYNT FEEIDRLAA IEKAKQFFGV  
 E

> RXA02517 (1-447, translated) 149 residues

MNLEQMYQEV ILDHYNPQH KGLRDPFDAE VHHVNPSCGD ELTLRVKLSE DGSTVEDVSY  
EAVGCSISQA STSVMAEEIV GQPVDKALEK LTFEKMIVS RGQFVGDEDL IGDGVAFSGV  
AKYPARVKCA LLGWKAFQAA TADAVAHAA

> RXA02532 (1-1047, translated) 349 residues  
MNPPITLSST YVHDSEKAYG RDGNDGWGAF EAAMGTLDGG FAVSYSSGLA AATSIADLVP  
TGGTVVLPKA AYYGVNTIFA RMEARGRLKV RTVDADNTEE VIAAQQGADV VWVESIANPT  
MVVADIPAIV DGVRGLGVLV VVDATFATPL RQRPLELGAD IVLYSATKLI GGHSDDLGLV  
AVCKSEHHAQ FLATHRHDHG SVPGGLEAFL ALRGLYSLAV RLDRAESNAA ELSRRLNAHP  
SVTRVNYPGL PDDPQHEKAV RVLPSCGGM LSFELDATPE RTDEILESLS LLTHATSWGG  
VETAIERRTR RDAEVVAEVP MTLCRVSVGI EDVEDLWEDL NASIDKVLG

> RXA02536 (1-756, translated) 252 residues  
MDNFALLRDA AEKAAEQGAR VLVFPEATSQ SFGTGRDQTQ AEELDGEFST AVRKLADELD  
VVIVAGMFTP ADTVQRGEKT ISRVNNTVLI SGAGLHQGYN KIHTYDAFGY RESDTPKPGD  
ELVVFEVDDI KFGVATCYDI RFPEQFKDLA RNQAQIIVVP TSWQDGPGLK EQWEVLPRAR  
ALDSTCWIVA CGQARLPEEL RDERKGPTGI GHSMVTNPHG EVIASAGYEP EMLIADIDVS  
GLAKIREALP VL

> RXA02550 (1-1311, translated) 437 residues  
VTTDKRKTST TTDANKAVG ADQAARPTRR TTRRIFDQSE KMKDVLVEIR GPVAAEAERM  
ELDGHNILKL NTGNPAVFGF DAPDVMIRDM IANLPTSQGY STSKGIIPAR RAVVTRYEVV  
PGFPHFDVDD VFLGNGVSEL ITMTTQALLN DGDEVLPAP DYPLWTAATS LAGGKPVHYL  
CDEEDDWNPS IEDIKSKISE KTKAIVVINP NNPTGAVYPR RVLEQIVEIA REHDLILAD  
EIYDRILYDD AEHISLATLA PDLLCITYNG LSKAYRVAGY RAGWMVLTGP KQYARGFIEG  
LELLAGTRLC PNVPQAHAIQ VALGGRQSIY DLTGEHGRLL EQRNMAWTKL NEIPGVSCVK  
PMGALYAFPK LDPNVYEIHD DTQLMLDLR AEKILMVQGT GFNWPVHDF RVVTLPWASQ  
LENAIERLGN FLSTYKQ

> RXA02559 (1-903, translated) 301 residues  
MIPVLIDCDT GIDDALALIY LVALHKGRI QLFGATTTAG NVDVKQTAIN TRWVLDQCGL  
ADIPVLAGQP EPKHVPLVTM PETHGDHGLG YINPGHVEIP EGDWKQLWKE HLSNPETKLI  
VTGPATNLAE FGPVENVTLM GGTYLYPGNT TPTAEWNTWV DPHGAKAFA AAQKPITVCS  
LGVTEQFTLN PDILSTLINT LGSQPIAEHL PEMLRFYFEF HEVQGEGLA QIHDLLTCMI  
ALDKIPFSGR EVTVDVEADS PLMRGTTVAD IRGHWGKPAN AFLVETADIE AAHAELLRAV  
E

> RXA02622 (1-1560, translated) 520 residues  
MSDDRKAIR ALISVYDKTG LEDLAQALHR ENVEIVSTGS TAAKIAELGI PVTPVEELTG  
FPECLEGRVK TLHPKVHAGI LADTRKEDHL RQLKELEVAP FQLVVVNLYP FAETVASGAD  
FDACVEQIDI GGPSMVRAAA KNHPSVAVVV SPNRYEDVQE ALKTGGFSRA ERTKLAAEAF  
RHTATYDVTV ATWMSEQLAA EDSETEFPWV IGTTNTLSRS LRYGENPHQS AALYVGNTRG  
LAQAKQFHGK EMSYNNYTDS DAAWRAAWDH ERPCVAIKH ANPCGIAVSD ESIAAAHREA  
HACDSVSAFG GVIASNREVS VEMANQVAEI FTEVIIAPSY EEGAVEILSQ KKNIRILQAE  
APVRKGFESR EISGGLLVQE RDLIHAEGDN SANWTLAAGS AVSPEVLKDL EFAWTAVRSV  
KSNAILLAKN GATVGVGMGQ VNRVDSARLA VDRAGAERAT GSVAASDAFF PFADGFVLA  
EAGITAVVQP GGSIRDNEVI EAANKAGVTM YLTGARHFAH

> RXA02623 (1-591, translated) 197 residues  
VNSDSTTTIV VLASGTGTL QSLIEAQGT SIVGVVSDVE CPALSRAADA GIDTAVVPLG  
KDRAQWNHEL ADAVAVSDPD LVVSAGFMKI LGEGFLSRFP SRIINTHPAL LPSFPGAHAV  
RDALAYGVKV SGSTVHLVDA GVDTGPIIAQ RAVPVEVND ESSLHERIKQ VERKLIVEVL  
NSVEFSRQGG VQLNWRG

> RXA02629 (1-585, translated) 195 residues  
MSKDPGLSLT DVVDTRVPLP DVEPDPEFLK ATEKEFHMAS QKRALVVLVG DHVAEADGTG  
RLVTELLLES GFNVDAVSV KSKKSQIRQA IETAVVGGAD LVLITGGVGV GPRDKTPEAT  
SAVLDQDVP IAQALRSSGL ACGAVDASVS RGVAGVSGST VVVNLAESRS AIRDGMATLT  
PLVDFVVDQL RTSV

> RXA02645 (1-1830, translated) 610 residues

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MLKDLTGLRE LVLRECHSI SHLSSPTGSI FTSLVAMLTQ QSFSVWAPLP HDVHLILNGE
TLPMHKTEGS WWRAEIAPKA GDRYGFSLFD GSSWSKTLPD PRSTSQPDGV HGLSEVSDDS
YLWGDQQWTG RILPGSVLYE LHVGTFSFDG TFEQVVDKLP YLRDLGVTAI ELLPVQPFQ
NRNWGYDGVL WHAVHAGYGG PAGLKKLIDA SHQAGIAVYL DVVYNHFGPD GNYNQFGPY
TSGGSTGWGD VVNINGHDS EVRNYILDAA RQWFEDFHVD GLRLDAVHSL DDRGAYSLLA
QLTMAEDVS AQTGIPRS LI AESELNDPKF VTSREAGGFG LDAQWVDDIH HALHALVSGE
RNGYYSDFGS VDTLAKTLRE VFEHTGNYST YRGRNHGRPV HPDITPASRF VTYTTTHDQT
GNRAIGDRPS TTLTPEQQVL KAAIIYSSPY TPMLFMGEEF GATTPFAFFC SHTDPELNRL
TSEGRKREFA RLGWNADDIP SPELESTFTS SKLDWEFTAE QRRINDAYKQ LLHLRHTLGF
SQPNLLTLEV EHGENWLSMA NGRGRILANF SDDTITVPLG GELIYSFTSP TVTDTSTTLQ
PWGFAILTRN

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> RXA02646 (1-1269, translated) 423 residues

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MASGAELIRA ADIQTAAQARI SSVIAPTLPQ YCPRLSEETG AEIYLKREDL QDVRYSYKIRG
ALNSGAQLTQ EQRDAGIVAA SAGNHAQOVA YVCKSLGVQG RIYVPVQTPK QKRDRIMVHG
GEFVSLVVTG NNFDEASAAA HEDAERTGAT LIEPFDARNT VIGQGTVAE VIGQGTVAE
SADHVMVPVG GGGLLAGVVS YMADMAPRTA IVGIEPAGAA SMQAALHNGG PITLETVPDF
VDGAAVKRVG DLNYTIVEKN QGRVHMMSAT EGAVCTEMLD LYQNEGIIAE PAGALSIAGL
KEMSFAARSV VVCIISGGNN DVLRYAEIAE RSLVRRGLKH YFLVNFQKP GQLRHFLIEDI
LGPDDDDITLF EYLKRNRET GTALVGIHLS EASGLDSLLE RMEESAIDS RLEPGTPEYE
YLT

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> RXA02648 (1-525, translated) 175 residues

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DAPDLAEAWD QINPEPSVKD YLDWIGTRID AINSAVKGLP KEQTRLHICW GSWHGHVHTD
IPFGDIIGEI LRAEVGGFSF EGASPRHAHE WRVWEENKLP EGSVIYPGVV SHSINAVEHP
RLVADRIVQF AKLVGPENVI ASTDCGLGGR LHSQIAWAKL ESLVEGARIA SKELF

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> RXA02653 (1-1998, translated) 666 residues

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MIPKPDVTDL YLEDLLNEGS EKIRSAKDL ELRTVLKEVS SQIQRAGKK DEEWGMGATW
RELYPSIVER ASYEGRDSL I GFDHLAREME RLAFGPPSES FEYLQELVKS GVV DITHLHR
GREPLTDLVR ELEITVVIDA VLPPPGVVPV TLVHNLVKEG YARMRPGTRG LDVAADGTQVQ
GQRHLAAVGR MTEDVVLGND TLRSLHDII PKWARRVIRD ASTYPDRVHG TPPLPARLEP
WAEKLTSDPA TCRHLIEFEG SPVNVLSHGS MPRNINELVD AGIQMGVDTR IFFARKANKG
LTFVDAVKDT GHGVDVASER ELSQVLNRGV PGERIILSAA IKPDRLLALA IENGVIISVD
SRDELDRISA LVGDRVARVA PRVAPDPAVL PPTRFGERAA DWGNRLTEVI PGVDIVGLHV
HLHGAAKDR ALALQECQQL VDSLRECGHS PQFIDLGGGV PMSYIESEED WIRYQSAKSA
TSAGYAESFT WKDDPLSNTY PFYQTPVRGN WLKDVLSKGV AQMLIDRGLR LHIEPGRSL
DGCQVTLAEV AFVKTRSDGL PLVGLAMNRT QCRTTSDDFL IDPLHITDGD VGEEIEAYLV
GAYCIEDELI LRRRIRFPRG VKPGDIIGIP NTAGYFMHIL ESASHQIPLA KNVVWPEGQL
DDIDAD

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> RXA02658 (1-684, translated) 228 residues

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MSQNRIRTH VGSLPRTPEL LDANIKRSNG EIGEEFFQI LQSSVDDVIK RQVDLGIDIL
NEGEYGHVTS GAVDFGAWN YSFTRLGGLT MTDTRWASQ EAVRSTPGNI ELTSFSDRRD
RALFSEAYED PVSGIFTGRA SVGNPEFTGP ITYIQEETQ TDVDLLKKGM NAAGATDGFV
AALSPGSAAR LTNKFYDTDE EVVAACADAL SQEYKIITDA GLTVQLDA

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> RXA02687 (1-945, translated) 315 residues

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MSDAPTVVAY LGPAGTFTEE ALYKFADAGV FGDGEIEQLP AKSPQEAVDA VRHGTAQFAV
VAIENFVDGP VTPTFDALDQ GSNVQIIAE ELDIAFSIMV RPGTSLADV TLATHPVGYQ
QVKNWMATTI PDAMYLASS NGAGAQMAE GTADAAAAPS RAAELFGLER LVDDVADVGR
ARTRFVAVQA QAAVSEPTGH DRTSVIFSLP NVPGLSLRAL NEFAIRGVDL TRIESRPTK
VFGTYRFHLD ISGHIRDIPV AEALRALHLQ AEELVFVGSW PSNRAEDSTP QTDQLAKLHK
ADEWVRAASE GRKLN

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> RXA02717 (1-882, translated) 294 residues

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MPPRDDAAEE RLYRAAEVFH DLGASFVSVT YGAGGSTRE TSRIARRLAK QPLTTLVHLT
LVNHTREEMK AILREYLELG LTNLLALRGD PPGDPLGDV STDGGLNYAS ELIDLIKSTP
EFREFDLGIA SFPEGHFRAK TLEEDTKYTL AKLRGGAEYS ITQMFFDVED YLRLRDLVA
ADPIHGAKPI IPGIMPITSL RSVRRQVELS GAQLPSQLEE SLVRAANGNE EANKDEIRKV
GIEYSTNMAE RLIAEGAEDL HFMTLNFTRA TQEVLYNLGM APAWGAEHGQ DAVR

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> RXA02754 (1-486, translated) 162 residues  
PTNTKIVVSS DLDEFIAIAGL RGEFVDVFGV GTSVVTGSGA PTAGLVYKIG EVAGHPVAKR  
SRNKESYGGG KKA VRTHRKS GTAIEEIVYP FNAEAPDTGK LDTLSLTIPL MRDGEIVPGL  
PTLEDSRAYL AKQLVSLPWE GLALSRDEPV LHTRFVGFPF AA

> RXA02758 (1-435, translated) 145 residues  
MGYQTAVVSG GFIQVLEGLA EELELDYVRA NTLEIVDGKL TGNVTGKIVD RAAKAEFLRE  
FAADSGMKMY QTVAVGDGAN DIDMLSAAGL GVAFNAKPAL KEIADTSVNH PFLDEV LHIM  
GISRDEIDLA DQEDGTFHRV PLTNA

> RXA02759 (1-111, translated) 37 residues  
VLRLYPTLIT GEVIEMLAH AGKEAKVAAV TERAMRG

> RXA02768 (1-603, translated) 201 residues  
LSFDPNTQGF STASIHAGYE PDDYYGSINT PIYASTTFAQ NAPNELRKGY EYTRVGNPTI  
VALEQTVAAL EGAKYGRAFS SGMAATDILF RIILKPGDHI VLGNDAYGGT YRLIDTVFTA  
WGVEYTVVDI SVVEEVKAAI KDNTKADLGG NPNQPSTLAL PDIEAXCKTS PERHQPQACC  
LTTPSHSPYL QXPLKXXXHT Q

> RXA02771 (1-555, translated) 185 residues  
VSEQALSTFD RAREALDKKT RYVQDFPEKG VLFEDLTPVL GDAESFVAVV DAMAEAAEKL  
NAEIIIGGLDA RGFLGSAVA YKLGLGVLA I RKKGKLPFPV VTQEYELEYG TAALELPSEG  
IDIAGKNIVL IDDLVATGGT LGAARKLIES CDGHVSGYVL AIEVPGLGGR DNLGDRPVIV  
VRDPQ

> RXA02772 (1-780, translated) 260 residues  
MSARLARSLT GNRVRTNPVL DPLLSIHRQF HPRADVQVLE RAYDTAERLH DGVIRKSGDP  
YITHPLAVAT IAAEIGMDTT TLVAALLHDT VEDTDYSLDD LTRDFGEEVA RLVDGVTCLD  
KVALGAAAEA ETIRKMIVAM SQDPRVLVIK VADRLHNMRT MRFLPPEKQA KKARQTLEVI  
APLAHRLGMA SVKWELEDLS FAILYPKYE EIVRLVADRA PSRDRLKEI IDQVTGGLRE  
NNIAAEVLGX XKHSGLSFKR

> RXA02773 (1-162, translated) 54 residues  
MIVRGRDFDD IFDLVGIRXL XDNVNNWVRR XRCRALXXQC SXWXXQRLYF SPAL

> RXA02790 (1-1143, translated) 381 residues  
MEPVYVKRRQ RFIAVTIASL ILIIGAIYI GVATSNRTPH DYEGSGNGVV QLVEIPEGSS  
ISELGPELEE RDIVATNSAF QTAASNNPNA GSVQPGFYRL QEOMNAAA AV SALLDPDNQV  
DLLDIHGGAT LMDVTVVGGN TRAGIYSQIA AVTCTEGSAN CITAEDLQOV ASTVSPAELG  
VPDWAIAAVE ARGTDPKRLE GLIMPGQYV DPSNDAQGIL TDLITRSANH FQETDITGRA  
DAIGLTPYEL VTAASLIERE APAGDFDKVA RVILNRLAEP MQLQFDSTVN YGLSEQEVAT  
TDEDRTVTP WNTYAMDGLP QTPIAAVSTE ALQAMENPAE GNWLYFVTID TDGTTVFNDT  
FEEHEADIEQ ALNSGVLDN R

> RXA02791 (1-828, translated) 276 residues  
LGSHITHRAA VLGSPIEHSK SPVLHNTGYK ALGLDQWEYD RFECTGDMLP GIVSGADETY  
CGFSVTMPK FAALEFADEV TERACAIGSA NTLLRTATGW RADNTDVGDI RGALGELLGG  
ASLAGKHAIV IGSGGTARPA IWALIEAGVA RITVLNRSR TAEQLTLFDE TPTTLAYAPL  
EHLHIEADV VSTVPASAAIA GLEDTLAIAP VLDVIYDPWP TPLVEVTRAK GLKAVGGHVM  
LAHQSYGQFE QFTGMDAPRD AMREALEESL GISEEH

> RXA02801 (1-435, translated) 145 residues  
VGFDVARVRG LYTS LGDGWT YLNSHQIPQV PERVASGVAA AFRTHAQISE VTSQPIAVDQ  
LEAAREAVAS LAGVDPDCVV LGPTRQFLAH TLARGLGGFV RRGAGVVLSR ADADWLTA PF  
RSLDGVFSWA EPDLGTGMLP DWQYQ

> RXA02802 (1-468, translated) 156 residues  
MAMEALKIIT GVGTPGIGL GYSSLDGTW EYIPVVGSP VLERVLGSAG VSGISGGFGE  
VLDVPRVSAL VDGVS LIDVR EPSEFSAYS I PGAHNTPLSA IREGAIPPSV SAGKEVIVYC  
AAGVRSQA I AILESAGYTG MSSLDGGIEG WLDSL

> RXA02805 (1-585, translated) 195 residues  
VFPGVVDGIS HYGNCLGLPN IGGETVFDDDS YAGNPLVNAL CVGTLKVEDL KLAFASTGTN  
KVILFGSRTG LDGIGGVSVL GSASFEEGEE RKLPAVQVGD PFAEKVLIEC CLELYKAGVV  
VGIQDLGGGG LACATSELA AGDGGMVRNL DNVPLRAENM SAAEILASES QERMCAVVTP  
ENVERFLEIC AKWDV

> RXA02814 (1-471, translated) 157 residues  
AKNLEEHSYV VNHLRTILEP LCSQFDAPTV PELTKTNEMW HLATPIVGTL KYPHITALEL  
AIRHTPTPAI CGTPTDAAEA LIIEAESPRN FYAGAAGWCD STGDGEYMVA IRCAEVSEDG  
TWARAWAGGG IVAESDAQEE FDETTAKLQT IMRSLGL

> RXA02843 (1-891, translated) 297 residues  
MTTASATGIA TLTSTGDVLD VWYPEIGSTD QSALTPLEGV DEDRNVTRKI VTTTIDTDAA  
PTDTYDAWL LHLSSHVRFR PHTINLDGIF GLNNVWVWN FGPCAVDGF LTRARLSRRG  
QVTVYSVDKF PRMVDYVVP GVRIGDADRV RLGAYLADGT TVMHEGFVNF NAGTLGASMV  
EGRISAGVTV DDGTDVGGGA SIMGTLSSGG QHVISLGKRC LLGANSKCGI PLGDDCIIEA  
GLYITAGTKV LFDGSLHKAS TLAGSNGLIF RRDSVSGQVV AVPNTKVVEL NTALHSN

> RXA02857 (1-513, translated) 171 residues  
MDITIVNHPL VASRLTLLRD ERSNDAAFR AANDLGAMLI YEASRDLEVE HFDTKTPVAM  
AEGTRLKQPP IIVPIIRAGL GMIDPALSMI PDAQVGFGL ARDEETHEPV PYLEALPQDL  
SNQPVFLVDP MLATGGSLH AIRLLADRG TDITAICMVS AQPQVDALAE S

> RXA02879 (1-861, translated) 287 residues  
ELADYIPELK SADPNPLAVA LCTVNGHIYS AGDDDIEFTM QSISKPFAYA LALQECGFDE  
VSASVALEPS GEAFNELSLD GENRPMNPMI NAGAIINQL INGSSTVED RVEKIRHYFS  
ELAGRELTID RVLAESLAG ADRNLSIAHM LRNYGVIEDE AHDAVLSYTL QCAIKVTRD  
LAVMTATLAA GGTHPITGKK LLDARVCRLT LSVMASAGMY DEAGQWLSTV GIPAKSGVAG  
GLIGILPGQL GIATFSPRLN PKGNSVRGVK IFKQLSDDMG LHLMSTE

> RXA02903 (1-483, translated) 161 residues  
VSKLKGSRL LDVSGDHSF ADLAGRQVAH VDVVDPLINT TFEEFQPTQS YDAITFIASL  
HHMNAEEGLN KAVRILNPGG KLLIVGLAKN KTASDWIISG LQAFSLRPIS LINREQQIYP  
FPTKEPSESL HEIRQLTKQL LPHRRIRRG HFRYLLEWTK P

> RXA02906 (1-498, translated) 166 residues  
MTQSAPEFIA TADLVDIIGD NAQSCDTQFQ NLGGATEFHG IITTVKCFQD NALLKSILSE  
DNPGGVLVID GDASVHTALV GDIIAGLGKD HGWSGVIVNG AIRDSAVIGT MTFGCKALGT  
NPRKSTKTGS GERDVVVSIG GIDFIPGHYV YADSDGIIVT EAPIKQ

>RXN00023 TRANSLATE of: rxn00023.seq check: 8571 from: 1 to: 3456  
MTSMNLPIEL ATLSQAVDK VRSWLEYSK ESVPNADAKR LAAVLQDPNG LEFTVGFVDR  
VVRTEDREAA AHALYELGKI APSTMSFLDR AQIQAGSLVG RALPQVVVPA ARARIRQMGV  
HMIVDARDKQ FAKAVAEIQS DGHRLNINLL GEAVLGRKEA AKHLDDTVRL LRRPDVEYVS  
IKVSSVASQI SMWGFEDTVN YVVEQLTPLY IEAARAPKGT KFINLDMEEY RDLRLTMEVF  
KRLLSNPELH ELEAGIVLQA YLPDALGAIQ DLAQFGRERV NTGGAGVKVR LVKGANLPM  
HVHAQITGWP VATEPSKQAT DANYKRVLYW TMRKENMEGL RLGAVAGHNLF DIAFAHLLSV  
ERGVADRVEF EMLQGMASDQ ARAVSVDVGE LLLYVPAVRP QEFDAISYL VRRLEENAAS  
ENFMSAIFDL DADNPSFKRE ESRFRASISD LATLIDVPAP GPNHTQDRSK ETLLDAPLVP  
FINEPDTNPA LIQNQWATK AVATAAEPGW LEKQTKPEVL EEGDVDKLIN DVRDAEAWA  
ARPARERAEI LYKTAELRV RRGHLISVTA AEVGKAVEQT DPEISEAIDF ARYYAHLALE  
LDDVDNAEFT PDRVVVVTPP WNFPIAIPAG STFAALAAGA GVIHKPSKPS QHCSAAVVEA  
LWEAGVPREV LHCIYPANRD VGCALISHEH VDRVILTGS ETAAMFSSWR PELTINGETS  
GKNAIVVTPS ADRDLAVADL VKSAFGHAGQ KCSAASLGIL VGSVYESERF RKQLVDAASS  
LIVDWPTNPS ATVGPLTELP SDKLHHAHTT LEEGESWLLK PRQLDDTGRL WSPGIKEGVK  
PGTFFHLTEV FGPVLGLMKA TDLNEAIEFQ NGNDFGLTGG LQSLDADEV TWDHVDVGN  
AYVNRGITGA IVQRQSFQGW KKSSVGLGSK AGGPNYVMLM GTWADAPSHH APRETNPLIS  
KLDLPGEEL WLEKANASDE TAWNTEFGSP RDPGLDVEA NIFRYRPAEV VLRLDDSATP  
RETARALLAA RRAGVTPRVL QTPGVSEQVR EVLSAAGVSA ETVDDSVFIS NVLRGEYDEN  
SSVRVRYLKG VSDTVRERLS VRPEVVLDD AVTASGRVEL RYWLKEQAIS MTLHRRFGNPV



AAFHELAEEEL KR

>RXN00076 TRANSLATE of: rxn00076.seq check: 5232 from: 1 to: 1371  
MTTPLRVAVI GAGPAGIYAS DLLIRNEERE VFVDLFEQMP APFGLIRYGV APDHPRIKGI  
VKSLHNVLDK PRLRLLGNIE IGKDITVEEL RDYYDAVVFS TGAVADRDLN IPGIEAEGSF  
GAGEFVGFDY GNPRFERSWD LSAQSVAVIG VGNVGLDVAR ILAKTGDELK VTEISDNVYD  
SLKENKATEV HVFGRRGPAQ VKFTPOELKE LDHSPTINVV VDPEDIDYDG ASEEARRASK  
SQDLVCQILE QYAIAREPKDA PHTLQIHLFE NPVEVLQKDG KVVGLRTERT SLDGNGGVNG  
TGEFKDWPVQ AVYRAVGYS DPIDGVPFDE NKHVIPNDGG HVLTPAGAEV VPGLYATGWI  
KRGPIGLIGN TKSDAKETTD ILIKDAVAGV LEAPKHQGEI AIELLDSRN IPFTTWEGWY  
KLDAAERALG EAEGRRKKI VDWEEMVRQA REAPAIV

>RXN00116 TRANSLATE of: rxn00116.seq check: 3330 from: 1 to: 1161  
MSNDFVVSRL RPFGETIFAT MTQRAVEAGA INLGQGFPE DGPRRMLEIA SEQILGGNNQ  
YSAGRGDASL RAAVARDHLE RFDLEYNPDS EVLITVGATE AITATVLGLV EPGDEVIVLE  
PYYDAYAAAI ALAGATRVAV PLQEVENSWD VDVKLHAAV TKKTRMIIIV SPHNPTGSVF  
SKKALKQLAG VARAYDLLVL SDEVYEHVLF DDQKHVSVAK LPGMWDRVT VSSAAKTFNV  
TGWKTGWALA PEPLLEAVLK AKQFMSYVGA TPFQPAVAHA IEHEQKWVSK MSKGLELKR  
ILRTALDKAG LKTHDSMGTY FIVADIGDRD GAFCFELIE KVGVAIPVQ AFVDHPKKWS  
SKVRFACCK EETLREAAER LKGIKKL

>RXN00132 TRANSLATE of: rxn00132.seq check: 6992 from: 1 to: 1434  
MAQVMDFKVA DLSLAAGRQ QIRLAIEYEMP GLMQLRKEFA DEQPLKGARI AGSIHMTVQT  
AVLIETLTAL GAEVRWASCN IFSTQDEAAA AIVVSGTVE EPAGVPVFAW KGESLEEYWW  
CINQIFSWGD ELPNMILDDG GDMATMAVIRG REYEQAGLVP PAEANDSDEY IAFGLMLREV  
LAAEPGKWK IAEAVKGVTE ETTTGVHRLY HFAEEGVLPF PAMNVNDAVT KSKFDNKYGT  
RHSLIDGINR ATDMLMGGKN VLVCYGDVG KGCAEAFDQG GARVKVTEAD PINALQALMD  
GYSVTVDEA IEDADIVITA TGNKDIISFE QMLKMKDHAL LGNIGHFDNE IDMSLLHRD  
DVTRTTIKPQ VDEFTFSTGR SIIVLSEGR LNLGNATGHP SFVMSNSFAD QTIAQIELFQ  
NEGQYENEVY RLPKVLDEKV ARIHVEALGG QLTELTKQA EYIGVDVAGP FKPEHYRY

>RXN00198 TRANSLATE of: rxn00198.seq check: 9286 from: 1 to: 549  
MYPNLFRTAT AHEEGEYIIT GDESADEIAA LGLAERAAGS TLGERKFAVN TVEFHGNNGH  
VTGLTGNQIR VVNGKREPIE GTEFPFEADL VLVALGFTGA EQGGLAHELG VGFDDRGRIL  
RDSEYRSPTN SRVYIAGDNG RGQSLIVWAI AEGRACAAAI DADLMGETAL PVAVAPQDVP  
LAV

>RXN00262 TRANSLATE of: rxn00262.seq check: 6430 from: 1 to: 1074  
MLYLDNAATT SVRNEALEAM WPLYLTGAFGN PSSPHEVGRL ASAGLEDART RVARIIGGRP  
TQVTFSTSGS EANNLAIKGA CLANPRGRHL ITTPIEHDSV LETAAYLERF HDFEITYLSP  
DHTGLISPEG LRKAVRPDTT LISIGYANNE VGTIQPIAEL AAVSSTPFHT DAVQAAHLTF  
DLGVDALSLS GHKFGAPKGI GVLWSKLPLE PVIHGGGQEK GRRSGTENVA GAIAQATALE  
LARAESYDPL GEFIEEVLTI PGAHLTGHPR MRIDGHASFL FDSIGSETVL LELEKQIVC  
SPGSACSGSE VSHVLLALGL EEDQARTAVR CTFSTTHSRE DALVAASALK SAVALIRG

>RXN00351 TRANSLATE of: rxn00351.seq check: 7296 from: 1 to: 1455  
MDDSNSFVVV ANRLPVDMTV HPDGSYSISP SPGGLVTGLSPVLEQHRGCWV GWPPTVDVA  
PEPFRDTGV LLHPVVLTAS DYEGFYEGFS NATLWPLFHD LIVTPVYNTD WWHAFREVNL  
KFAEAVSQVA AHGATVWVQD YQLLLVPGIL RQMRPDLKIG FFLHIPFPSP DLFRQLPWRE  
EIVRGMLGAD LVGFHLVQNA ENFLALTQQV AGTAGSHVGQ PDLQVSGEA LVREIGAHVE  
TADGRRVSVG AFPISIDVEM FGEASKSAVL DLLKTLDEPE TVFLGVDRLD YTKGILQRL  
AFEELLESQA LEADKAVLLQ VATPSRERID HYRVSRSQVE EAVGRINGRF GRMGRPVVHY  
LHRSLSKNDL QVLYTAADVM LVTPFKDGMN LVAKEFVANH RDGTGALVLS EFAGAATELT  
GAYLCNPFV ESIKRQMVAA VHDLKHNPEA AATRMKTNSE QVYTHDVNVW ANSFLDCLAQ  
SGENS

>RXN00355 TRANSLATE of: rxn00355.seq check: 5514 from: 1 to: 1020  
MHLGKLDQDS ATTILEDYKN MTNIRVAIVG YGNLGRSVEK LIAKQPDMDL VGIFSRATL  
DTKTPVFDVA DVDKHADDVD VLFLCMGSAT DIPEQAPKFA QFACTVDITYD NHRDIPRHRQ  
VMNEAATAAG NVALVSTGWD PGMFSINRVY AAAVLAEHQQ HTFWGPGLSQ GHSDALRRIP

GVQKAVQYTL PSEDALEKAR RGEAGDLTGK QTHKRQCFVV ADAADHERIE NDIRTMPDYF  
VGYEVEVNFI DEATFDSEHT GMPHGGHVIT TGD TGGFNHT VEYILKLDRN PDFTASSQIA  
FGRAAHRMKQ QGQSGAFTVL EVAPYLLSPE NLDDLIARDV

>RXN00365 TRANSLATE of: rxn00365.seq check: 223 from: 1 to: 627  
MILSPSKTFE LEIVEKAFRE GWVQPVIPSM STGLSVAVVG SGPAGLAAAQ QLTRAGHSVT  
VFERDDRLGG LMRYGVPEYK MENRWIDRRI EQMEAEGTTF QVGTSPRAAE LALFDAILLA  
TGTPVARELS VPGHDLNGIH AAMDYLTAQN RINEGDGEVS PINAKGKKVV IIGGGDTGTD  
CFGTALRQGA ESVTQFDIRP RAPFQRADS

>RXN00367 TRANSLATE of: rxn00367.seq check: 6400 from: 1 to: 4530  
MKPQGLYNPA HEHDACGVAF IADIHGRPSR SIVDRALEAL RNIDHRGAAG AEKNTGDGAG  
ILMQIPDGFY REVSGIELPE AGEYATGIAF LPRGRMAMMD AQKEIERIAK QEGADV LGWR  
MVPFDSRD LG SMAEEAMP SF AQIFLTVPGK SGEDLDRVMF FIRKRCEREL GTTNGRDTVY  
FPSLSSRTII YKGM LTTLLQL EGFFEDLGDA RLESAIAIVH SRFSTNTFPS WPLAHPYRFV  
AHNGEINTVR GNENWMRARE ALIKNDKLG N LSSVLPICTP EGSDTARFDE ALELLHLGGY  
SLPHAVAMMI PQAW EHNKTL SPELRDFEY HSCLM EPWDG PAALAF TDGR FVGAVLDRNG  
LRPGRITITD SGLVVMASES GVLDLREESV VKRTRVQ PGR MFLVDTA EGR IVEDEEIKQK  
LSEAQPYGEW IRDNFVHLDR LPQTRYNYMA HSRAVLRQ RV FGITEEDVDL LLLPMARQGA  
EAIGSMGSDT PIAALSQRPR MLYDFFAQRF AQVTNPPLDS IREKPV TSMF TLLGAQSDVL  
NPGPDAAARRI RLESPIIDNH ELATLINANA HGEWDSFGAA VISGLYPVAH HGAGM KAAIA  
RVRREVSEAI R NGKTLIVLS DRESDERMAP IPALLLTS AV HQYLVQQRTR TQCSLVVESG  
DAREVHHLAM LIGFGADAIN PYMAFETIDE LRMKGQLGDL SLDEASRNYI KAATRGVLKV  
MSKMGIATVS SYRGAQLADV TGLHQDL LDN YFGGIASPI S GIGLDEVAAD VEARHRSQFL  
PRPEEHAHRE LDLGGEYKWR REGEYHLFNP ETIFKLQHAT RSGSYEIFKD YTRKVVDDQST  
RLGTIRGLFE FSTDRKPISV SEVEPVSEIV KRFTSGAMSY GSISAEAEHV LAIAMNRLGG  
MSNSGEGGED ARRFDV EPNG DWKRSAIKQV ASGRFGVTSH YLNNCTDIQI KMAQGA KPGE  
GGQLPPNKVY PWVAEVRITT PGVGLISPPP HHDIYSIEDL AQLIHDLKNA NPRARIHVKL  
VAEQGVGTVA AGVSKAHADV VLISGH DGGT GASPLTSLKH AGGPWELGLA ETQQTLL L NG  
LRDRIRVQCD GQLKTGRDVV IAALLGAE EF GFATAPLVVE GCIMMRVCHL DTCPVGIATQ  
NPDLRSKFTG KAEHVVNFFT FIAQEVREYL AQLGFRSIDE AVGQAQVLRK RSGIPADSRA  
AHLDSLPIFH RPETPHFTQ DVRCTKTQEH SLEKALDN AF IDKASDTITR AAAGVETSIV  
IDSSISNVNR SVGTMLGS AV SRVAGAQGLP DGTITLNLQ CAGNSFGAFI PRGITINLTG  
DANDFVGKGL SGGKIVIKPS AQAPKQLKNN PNIIAGNVLG YGATSGELFI RGQVGERFCV  
RNSGATAVVE GIGNHGCEYM TGGRVLVLGP VGENFGAGMS GGIA YLANSP DLNQKINGEL  
VDVVPLSADD LTWAD ELIAR HREL TGSETK LRAQDLVKIM PRDFQKVLNI IETAHAEGQD  
PAIKIMEAVS

>RXN00371 TRANSLATE of: rxn00371.seq check: 9489 from: 1 to: 1794  
MTIAHKPEMA ETTGIETNQV SETIGVESLT HG NLRPVSSF EGQHEGQTEE LLPGKVIFVG  
AGPGNPDL LT VRAREVLGNA VRAITDEQVL SGVRAFVATE IPV PEDKLQA AEDEYERICI  
EAKENGARRK PPRPAPTAA EITEVSEATP AQIVELVQDA LSYGGDVIRL VTGNPLSSDA  
TLAEISAVSE AGLEFQVVP G MSLPATVPAF AGIALGSTYT ETDVNGQNL D WDQLASAPQP  
LVLQARVDDL SRIAQELKAR NMSLET PVS V TANGTTRLQR TYDTTLG LLH KLDAELSGPL  
VVTLGKGVDD RSKYSWENR ALYGWRVLVP RAREQAASMS ARLSSHGAIP QEVPTISVEP  
PRNPAQ MERA IKGIVEGRYQ WVVLTSVNAV KAVWEKITEF GLDSRSFAGV RIAAVGEKTA  
AEIRALGITP ELLPARTRQN AQGLVDVFPE YFEELDPVGR VLLPRADIAT DVLVDGLTHL  
GWEVEDVVAY RTVRAAPPSA DIRDMIKTGG FDAVAF TSSS TVKNLVGIAG KPHPRTIVAC  
IGPMTAATAE ELGLRVDVMP EIAEVP ELID ALAEHVADLR AKGELPPPRK KRRRRKAS

>RXN00383 TRANSLATE of: rxn00383.seq check: 2070 from: 1 to: 1344  
MRFAIIGAGL AGLTAAYEIH KADPTAQIDV LEAGERIGGK LFTVPFASGP TDIGAEAF LA  
ARSDAVEFFT ELGLADSLVS PSAAKSQYFA GGALHAFPAG GVMGIPSNPP AGAQDTAFDW  
TPGQDISVGA LVRRQYGDEI VDTVVSLLG GVSSTADDL GVRASVPALA AALDQLAEAG  
EPVTL SAAVK AVEAQREAAK TTSETRPVFQ TFKGGYAE LY EALAEQCGAD IHLDSFVSAI  
TKDGEGFAIK GGEGETYDKV ILAVPAPTAA VLLRDLAPAA APHLRAIKLA SSAVVGMRFD  
SSEGLPDNSG VLVAVNEPGI TAKAFTFSSK KWP HLEARGG ALVRASFGRL GDEASARMDE  
DLLVDAALDD LLTITGFDGR AAGLGEIFVQ RWFGGLPAYG VDHIATVSAA RAEIAAVPGV  
EAIGAWAGGVGVP AVIADAQA AVHRL LG

>RXN00402 TRANSLATE of: rxn00402.seq check: 8345 from: 1 to: 600

TDEKDGKPV L PYFVTPDAAY HGLKYADLGA PAFGLKVRVG LLRDTGSTLS AFNAWAAVQG  
 IDTLRLRLER HNENAIKVAE FLNNHEKVEK VNFAGLKDSP WYATKEKGL KYTGSVLTFE  
 IKGGKDEAWA FIDALKLHSN LANIGDVRSL VVHPATTHS QSDEAGLARA GVTQSTVRLS  
 VGIETIDDI ADLEGGFAAI

>RXN00403 TRANSLATE of: rxn00403.seq check: 6647 from: 1 to: 1131  
 MPTLAPSGQL EIQAIGDVST EAGAIITNAE IAYHRWGEYR VDKEGRSNV LIEHALTGDS  
 NAADWWADLL GPGKAINTDI YCVICTNVIG GCNGSTGPGS MHPDGNFWGN RFPATSIRDQ  
 VNAEKQFLDA LGITTVA AVL GGSMGGARTL EWAAMPETV GAAAVLAVSA RASAWQIGIQ  
 SAQIKAIEND HHWHEGNYE SGCNPATGLG AARRIAHLY RGELEIDERF GTKAQKNENP  
 LGPYRKPDQR FAVESYLDYQ ADKLVQRFDA GSYVLLTDAL NRHDIGRDRG GLNKALESIK  
 VPVLVAGVDT DILYPYHQE HLSRNLGNLL AMAKIVSPVG HDAFLTESRQ MDRIVRNFFS  
 LISPDENPS TYIEFYI

>RXN00420 TRANSLATE of: rxn00420.seq check: 7740 from: 1 to: 1464  
 MNSSHGTSSS GASAGAHGAL PLEAQKLNW GRTAPTTAEV LTTPDLDIIV DAVRQVAEQN  
 DSKPDYLRG VIARGMGRSY GDPAQNAGGL VIDMQPLNKI HSIDPDSAIV DVDGGVTLQD  
 LMKAAALPYGL WVPVLPGRQ VTIGGAIGPD IHGKNHHSAG SFGDHVVSME LLVADGRILH  
 LEPEGTAEDP QGDLFWATVG GMGLTGIIVR ARIRMTKTET AYFIADTDRT NNLEETVAFH  
 SDGSEHNYTY SSAWFDVIS EPKLGRSTIS RGSLATLAQL EELAPKLAKD PLKFNPQLM  
 KVPDIFPSWT LNKLTLSAVG VAYYAMGAPA KNQVKNLTQF YQPLDLIGEW NRGYGSKGFL  
 QYQFVVPTEA VEPFKDIIRD MQKSGHYSAL NVFKLFGPGN RAPLSYMPMG WNVCVDFPIR  
 PGLGAFLDDL DKRVMFEGGR LYLAKESRTS AENFHAMYPG MEGWLKTRNE IDPTGVFASD  
 MSRRLELS

>RXN00435 TRANSLATE of: rxn00435.seq check: 2922 from: 1 to: 1173  
 VGFDVARVRG LYTSLGDGWT YLNSHQIPQV PERVASGVAA AFRTHAQISE VTSQPIAVDQ  
 LEAAREAVAS LAGVDPDCVV LGPTRQFLAH TLARGLGGFV RRKAGVVLRS ADADWLTPF  
 RSLDGVFSWA EPDLGTGMLP DWQYEKLVDG STRLVLSAA HPLLGTVAPV GKIVDKVRAR  
 SRAWVLVDAT TYAAYRPLRL DEWEADIVML DLGELGGPQI SALIFRDTSM FPRLDRTVPL  
 ELPASSLPHG LLGGVPNLVR HLGNDENAP SVVEAMGEMA KFHKLFEHL VESLEGLHAV  
 HIVGISGDAA GQDAPFLDRV PRLTFTMEGV PADMVYRRIV DNRLITTVSP ADPLLEAMGV  
 TEAGGSITIG LSPFSTYYEV DQLTRVLASL A

>RXN00437 TRANSLATE of: rxn00437.seq check: 8249 from: 1 to: 456  
 MNTDPAYVAE QTGKLIDAF L TTDPLEPLD AAKNGVCTEA MGALVTFEGI VRDHDGGARV  
 TSLTYTAHPT APQVLSAVAD SIVEKHPRTR LWTARTGAL KIGDAAFLVV AASAHRAAF  
 AACSDLADAV KAQVPIWKEQ TRLDGSTDWV GL

>RXN00439 TRANSLATE of: rxn00439.seq check: 3994 from: 1 to: 468  
 MSELTHVRAD GSAHMDVDTG KNETSRTAVA EGFVKMRGDV VKQLFSAGLP KGDALPVARI  
 AGIMGAKKTP DIIPLCHPLP LGKITVDFFE LTDGVRIEAS VKTRGVGTVE MEALTAVSTA  
 ALTVYDMIKA VDKMAVIDGI RVLSKTGGKS GDWSVQ

>RXN00441 TRANSLATE of: rxn00441.seq check: 2659 from: 1 to: 1164  
 MSRSPEQH LA EISALLPPQK STFVNLREAL GRTFSAVTA QWDSRFDNS QMDGFALGPS  
 HLNGGTFVAVG PTIPAGHDPD QWYPRGIEKD IAPIMTGARL PKNTAAIIPV EKTTPGNFDA  
 PQVEIPATPQ GQFIRLQGS D ITAGDEIIPA GTELNSVHIG VLASQSIKSI EVAAKPRVLI  
 ITGGSEISEQ HGPATIPDAN GPLLRSLCAR NNIEVIAGLH TNDDPERLRF ELENAIDQYQ  
 PDVIITSGGI SHGKFEVFRQ ILEGTPNSWF GHVDQPPGGP QGISTFAETP VISLPGNPIS  
 TLVSFTLLVA PALNRQPLRH LDARITAPVQ GLQDNREQFL RGTISYRNGP RPRHASPGHQ  
 FPPAGSSCHR RLSDQDPGAD YGGGKRHR

>RXN00446 TRANSLATE of: rxn00446.seq check: 3948 from: 1 to: 864  
 MGAVELREAL AEHLEVEFDQ VTVGCGSSAL CQQLVQATCA QGDEVIFPWR SFEAYPIFAQ  
 VAGATPVAIP LTADQNHDLD AMAAAITDKT RLIFICNPNN PSGTTITQAAQ FDNFMEKVPN  
 DVVVGLDEAY FEFNRADDT VATEEIHRHD NVIGLRTFSK AYGLAGLRVG YAFGNAEIIA  
 AMNKVAIPFA VNSAAQAAAL ASLNSADELM ERVEETVEKR DAVVSALGAA PTQANFVWLP  
 GEGAAELAAK LAEHGIVIRA FPEGARISVT NAEETDKLLR AWEAINAG

>RXN00448 TRANSLATE of: rxn00448.seq check: 8725 from: 1 to: 1020

VTTKDISRPV CILGLGLIGG SLLRDLHAAN HSVFGYNRSR SGAksAVDEG FDVSADLEAT  
 LQRAAAEDAL IVLAVPMTAI DSLLDVAVHTH APNNGFTDVV SVKTAVYDAV KARNMQHRYV  
 GSHPMAGTAN SGWSASMDGL FKRAVWVVT F DQLFDGTDIN STWISIWKDV VQMALAVGAE  
 VVPSRVGPHD AAAARVSHLT HILAETLAIV GDNGGALSLS LAAGSYRDST RVAGTDPGLV  
 RAMCESNAGP LVKALDEALA ILHEAREGLT AEQPNIEQLA DNGYRSRIRY EARSQORRAK  
 ESVSPITISS RPVLRLLHPT PNWEKQLIHA ETLGARIEVF

>RXN00450 TRANSLATE of: rxn00450.seq check: 3072 from: 1 to: 324  
 VGVLPVQARI KDDERRMRHA LDIARQTPEG DVPVGAVIYA PTGEILATAT NRREADRDPT  
 AHAEIIALRR AARRFSDGWR LSDCTAVVT L EPCSMCAGAL VGARIGRI

>RXN00487 TRANSLATE of: rxn00487.seq check: 2450 from: 1 to: 1569  
 VSLQTNHRPV LVVDFGAQYA QLIARRVREA GIYSEVIPHT ATADDVRAKN AAALVLSGGP  
 SSVYAEGAPS LDAEILDGL PVFGICYGFQ AMTHALGGTV ANTGKREYGR TDINVAGGVL  
 HEGLEACHKV WMSHGDAVSE APEGFVVTAS SEGAPVAAFE NKERKMAGVQ YHPEVLHSPH  
 GQAVLTRFLT EIAGLEQNWTF AANIAEELIE KVRQIGEDG RAICGLSGGV DSAVAGALVQ  
 RAIGDRLTCTV FVDHGLLRAG EREQVEKDFV AATGAKLTV DERQAFLSKL AGVTEPEAKR  
 KAIGAEFIRS FERA VAGVLE EAPEGSTVDF LVQGTLYPDV VESGGGSGTA NIKSHHNVG  
 LPDDVEFKLV EPLRDLFKDE VRAVGRELGL PEEIVGRQPF PGPGLGIRII GEVTEDRLET  
 LRHADLIART ELTEAGLDGV IWQCPVLLA DVRSVGVQGD GRTYGHPIVL RPSSEDAMT  
 ADWTRLPYEV LEKISTRITN EVPDVNRVVL DVTSKPPGTI EWE

>RXN00488 TRANSLATE of: rxn00488.seq check: 2147 from: 1 to: 1518  
 MTTQSRVSTG GDNPNKVALV GLTFDDVLLL PDASDVVPSE VDTSTQLTRN IRLNTPILSA  
 AMDTVTEAM AIGMARHGGI GVLHRNLSIQ EQAENVELVK RSESGMVTDP VTCTPDMSIQ  
 EVDDL CARFR ISGLPVVDEA GKLVGICTNR DMRFESDMNR RVAEVMTPMP LVVAEEGVTK  
 EQALALLSAN KVEKLPIIAK DGKLVGLITV KDFVKTEQHP NASKDASGRL LVAAGIGTGE  
 ESFQRAGALA DAGVDILVVD SAHAHSRGVL DMVSRVKKSF PKVDIVGGNL ATREAAQAMI  
 EAGADAIKVG IGPGSICTTR VVAGVGAPQI TAIMEAAVPA HKAGVPPIAD GGMQFSGDIA  
 KALAAGANSV MLGSMLAGTA EAPGETITIN GKQYKRYRGM GSMGAMQGRG LSGEKRSYSK  
 DRYFQSDVKS EDKLVPEGIE GRVPFRGPIG DIIHQVGGGL RAAMGYTGSS TIEELHNARF  
 VQITSAGLKE SHPHHIQQT V EAPNYH

>RXN00508 TRANSLATE of: rxn00508.seq check: 3320 from: 1 to: 1083  
 MNLLTTKIDL DAIAHNTRVL KQMAGPAKLM AVVKANAYNH GVEKVAPVIA AHGADAFGVA  
 TLAEAMQLRD IGISQEVLCW IWTPEQDFRA AIDRNIDLAV ISPAHAKALI ETDAEHIRVS  
 IKIDSGLHRS GVDEQEWEGV FSALAAAPHI EVTGMFTHLA CADEPENPET DRQIIAFRRA  
 LALARKHGLE CPVNHVCNSP AFLTRSDLHM EMVRPGLAFY GLEPVAGLEH GLKPAMTWEA  
 KVS VVKQIEA GQGTSYGLTW RAEDRGFVAV VPAGYADGMP RHAQGFVSVT IDGLDYPQVG  
 RVCMDQFVIS LGDNPHGVEA GAKAVIFGEN GH DATDFAER LDTINYEVC RPTGRTVRAY  
 V

>RXN00536 TRANSLATE of: rxn00536.seq check: 8919 from: 1 to: 1371  
 MSPNDAFISA PAKIETPVGP RNEGQPAWNK QRGSSMPVNR YMPFEVEVED ISLPDRTPD  
 KKITVAPQWC AVDLRDGNQA LIDPMSPERK RRMFELLVQM GFKEIEVGFP SASQTD FDFV  
 REIIEKGMIP DDVTIQVLVQ AREHLIRRTF EACEGAKNVI VHFYNST SIL QRNVVFRMDK  
 VQVKLATDA AELIKTIAQD YPDTNWRWQY SPESFTGTEV EYAKEVVDV VEVMDPTPEN  
 PMIINLPSTV EMITPNVYAD SIEWMHRNLN RRDSIILSLH PHNDRGTGVG AAELGYMAGA  
 DRIEGCLFGN GERTGNVCLV TLALNMLTQG VDPQLDFTDI RQIRSTVEYC NQLRVPERHP  
 YGGDLVFTAF SGSHQDAVNK GLDAMAAKVQ PGASSTEVS W EQLRDRMGG SLPAYRSKGC  
 RSRLRGCPYR ELPVRQGRRC LHHEDRSRSA DPSLHAG

>RXN00537 TRANSLATE of: rxn00537.seq check: 1265 from: 1 to: 2286  
 MSTFVNDTVE DAIKTPELDQ PFEALGLKDD EYARIKEILG RRPTDAELTV YSVMWSEHCS  
 YKSSKVHLRY FGETTTEEMA SKILAGIGEN AGVVDIGDGN AVTFRVESHN HPSFVEPHQG  
 AATGVGGIVR DIMAMGARPI AVMDQLRFGA LDNPDTQRVF PGVVDGISHY GNCLGLPNIG  
 GETVFDDSYA GNPLVNALCV GTLKVEDLKL AFASGTGNKV ILFGSRTGLD GIGGVSVLGS  
 ASFEEGEERK LPAVQVGDPF AEKVLIECCL ELYKAGVVVG IQDLGGGGLA CATSELAAAG  
 DGGMRVNLDN VPLRAENMSA AEILASESQE RMCVVTPEN VERFLEICAK WDVTC AEIGE  
 VTDEKDRYV VHNGEVVIDA PPSTIDEGPV YNRPVARPEN QDELQLEGEI ARPVDVEEIK  
 AAWLKLVASP ALASRAFITE QYDRYVRGNT VQAKNANAGV LRIDEETNRG VAISADASGR

YTKLEPNTGA QLALAEAYRN VVSTGARPVA VTNCLNFGSP ENAGVMWQFK EAVHGLADGS  
 KLLGIPVSGG NVSFYNQTDG EPILPTPVVG VLGVLNVEQ SIGNVLPSD NDLYLLGETF  
 DEFSGSIWQQ VSGAGLNGLP PVVDLLNEQR LADLFVGS DL FAASHDLSEG GLGQTLAELA  
 IHQKKGMDVD LSQIHPSLFT SLFAESASRI VVATNRGEEL EKRAAELGVP VFKLGCTNDS  
 AVIAVKGADV EFTVSVEELR EAWTNTLPEA FGHAVGANAV VA

>RXN00558 TRANSLATE of: rxn00558.seq check: 6587 from: 1 to: 1347  
 VVKKPAGIAV GDGEQILVFK DLGLVSQVFD QPILESLRGN IAIGHTRYTT AGGNTWENAG  
 PMFRMAPDGT DIALGHNGNL INYIELLDKA TELGLVDPK KPSD TDVLTG LLASGVHDGN  
 NLFDSAKELL PSVKGAYCLT FTDGHTLYAA RDPFGIRPLS IGRLERGWV ASETAALDIV  
 GASHVREVEP GELIAIDESG LKSARFAETT RKGCVFYVY LARPD SVIKG RNVNEARLEI  
 GRKLAAEAPA VGDLVIPTPE SGTPAAVGFA QASGIPFGQG MVKNAYVGRT FIQPSD TLRQ  
 LGIRLKLNPL REVIAGKRLV VVDDSIVRGN TQRAVIRMLR EAGAAEVHVR IASPPVKWPC  
 FYGIDFATPG ELIANAVTSD NEAEMVEAVR SAIGADTLGY VSIDSMVAAT EQPANELCIA  
 CFDGKYPMGL PQGNSNADLV RKMQATASS

>RXN00618 TRANSLATE of: rxn00618.seq check: 4181 from: 1 to: 1107  
 MQMLDRVHRR RREGKDTLMF CAGQPSTGAP EAVIEEAEIA LRSGPLGYTE VIGDREFRER  
 IADWHSATYD VDTNPDNVIV TTGSSGGFVA SFIATLDHGD YVAMPTPGYP AYRNILES LG  
 AKVLNLRCTA ETRFQPTAQM LEELPHKPKA VIVTSPGNPT GTIIDPEELE RIAKWCDND  
 AVLISDEDYH GMSFGRPLAT AHQFSKNAIV VGTL SKYFSM TGWRVGIIV PDELVTPIEN  
 LQASLSLCAPIGQAAGRAA FTLEAGAE LD AHVEAYREAR EVFVDKLPEI GLGTFADPDG  
 GLYLWVDVSA YTDDSEEWAL RLLDEAGVAV APGVDFDPEE GHKWIRLSLC ASKEDTIEGV  
 RKIGEFIKK

>RXN00626 TRANSLATE of: rxn00626.seq check: 4739 from: 1 to: 1263  
 MRILVIGSGA REHALLRGLS TDPATTELHV APGNAGLGI ATVHPGIKAD DPEAVTALAK  
 ELNSDLVIG PEIPLVAGVA DALRAAGIAV FGPNKDAARI EGSKAFKDV MAAQGVRTAH  
 AETITPGASS EDIDAAIDRF GPTWVVKDDG LSAGKGVVVT PDRAAARAHV DAVLEGGNPV  
 LLESFLDGPE VSLFCLVDGE TVVPLLPAQD HKRAYDNDEG PNTGGMGAYA PLPWL PEDGV  
 QRIVDEVCP VAREMVARGC AYSGLLYAGI AWGAEGPAV EFNCRFGDPE TQAVLALLKT  
 PLAVLLNAVA TGT LAEQPAL EWEDAYALTV VLASYNPEA PRTGDVIRNA DADNV LHAGT  
 ALNAEGELVS AGGRVLNVIG VGETLEAARD NAYTTIKDIE LEGSHYRSDI ALAALEGRIS  
 I

>RXN00636 TRANSLATE of: rxn00636.seq check: 8124 from: 1 to: 1029  
 MMIDTPAVLI DRERLTANIS RMAAHAGAHE IALRPHVKTH KIIEIAQMQV DAGARGITCA  
 TIGEAEIFAG AGFTDIFIAY PLYLTDHAVQ RLNAIPGEIS IGVDSVEMAQ ATAGLREDIK  
 ALIEVDSGHR RSGVTATASE LSQIREALGS RYAGVFTFPG HSYGPGNGEQ AAADELQALN  
 NSVQRLAGGL TSGGSSPSAQ FTDAIDEMRP GVVVFND SQ ITSGACTEKQ VAMTVLSTVV  
 SRNVSDRRII LDAGSKILST DKPAWIDGNG FVLGNPEARI SALSEHHATI FWPDKVLLPV  
 IGEQLNIVPN HACNVINLVD EVYVREADGT FRTWKVVAR RNN

>RXN00667 TRANSLATE of: rxn00667.seq check: 6088 from: 1 to: 1014  
 MIALKSMSNR VVQPKMKAP LPIRDGLNPS RVRPLD AAP IRAIDFVEYL ISTQRHRNPA  
 DNAEALQARF DADLVVNHYG EPYAPDTMVQ PDDDIWFYRM PAAERPIPYK IHVIHEDDDI  
 LVIDKPPYLA TMPRGRHITE TALVKMRVLT GNNDLTPAHR LDRLTSGVLV MVKKPELRGA  
 YQTLFARREA SKTYEIAIAEF VPGLLDDGPA IWESRIEKER GIVQAFVVEG PVNARTELVS  
 VTPVEDAEQS ILEEMHGPLP RQARYVLAPS TGKTHQLRIH MRDFAAPILG DPLYPV LHAV  
 DDEDYTPMH LIARTLTFTVD PQTNEERTFV SNRPTGSL

>RXN00708 TRANSLATE of: rxn00708.seq check: 9995 from: 1 to: 807  
 MTLSLPPIGF GTVHLDGAPG VEAIAATAIDA GYRLIDTAYN YENEGTVGKA VRESGVPREE  
 LIVTSKLPGR FHARDLGRVR IEESLYRLNL DYIDLLLIHW PNPSKDLYVE AWETLIEVRD  
 AGLVKHIGVS NFLPNHIDRL RRETGELPAV NQIELHPYFP QVEQVDFHDE LGIITEAWSP  
 LSNRGLVEE PLLKEIGERY GVGSGEIALA WHHARGIVPI PRSTNPARQR SNLEAVKISL  
 IDEDVQAITA LARKNGRIKD QDPAVYEEF

>RXN00770 TRANSLATE of: rxn00770.seq check: 6183 from: 1 to: 1170  
 LLSPYAWGLS RALLDSYVPN KFQTPAGEAK YTMSDHQDTT AEGVSYAAAG VDIEAGDRAV  
 ELFAPMAKRA TRPEVLGNLG GFAGLFELGK YKKPILAAGS DGVGTKLVIA QMMDKHDTIG

IDLVAMCVDD LVVGTAEPLF LQDYIAIGKV VPEHVAEIVS GIAEGCVQAG CALLGGETAE  
 HPGVMEPDHY DVSATAVGVV EADELLGPDR VRAGDVLIGM ASSGLHSNGY SLARHVLLEK  
 AGLALDGHIE ELGRTLGEEL LEPTRIYAKD CLALIAECEV HTFCHVTGGG LAGNLERVVP  
 EGLVAEMSRA TWTPGQIFRT ISSVGKVSRE EMEKTFNMGV GMVAVVAEKD RDRALAMLT  
 RHIDCWEIGT VRNGEEGEPR VILNGEHPGY

>RXN00954 TRANSLATE of: rxn00954.seq check: 8841 from: 1 to: 621  
 AVKWFEASNF TFLFAPAYNP AIAHVQPVRQ ALKFPTIFNT LGPLLSPARP ERQIMGVANA  
 NHGQLIAEVF RELGRTRALV VHAGTDEIA VHGTTLVWEL KEDGTIEHYT IEPEDLGLGR  
 YTLEDLVGGL GTENAEAMRA TFAGTGPDAH RDLAASAGA MFYLNQDVDS LKDGAQKALS  
 LLADGTTQAW LAKHEEIDYS EKESND

>RXN00956 TRANSLATE of: rxn00956.seq check: 8058 from: 1 to: 1137  
 MTEKENLGGS TLLPAYFGEF GGQFVAESLL PALDQLEKAF VDATNSPEFR EELGGYLRDY  
 LGRPTPLTEC SNLPLAGEGK GFARIFLKRE DLVHGGAHKT NQVIGQVLLA KRMGKTRIIA  
 ETGAGQHGTALACALMGL ECVVYMGAKD VARQQPNVYR MQLHGAKVIP VESGSGTLKD  
 AVNEALRDWT ATFHESHYLL GTPAGPHFPF TIVREFHKVI SEEAKAQMLE RTGKLPDVVV  
 ACVGGGSNAI GMFADFIDDE GVELVGAEPA GEGLDGKHG ATITNGQIGI LHGTRSILMR  
 NSDGQVEESY SISAGLDYPG VGPQHAHLHA TGRATYVGIT DAEALQAFQY LARYEGIIPA  
 LESSHAFAYA LKRAKTAEV

>RXN00957 TRANSLATE of: rxn00957.seq check: 8921 from: 1 to: 1554  
 MSTNPHVFSL DRYHEDASA LFAHLGGTTA DDAALLESAD ITTKNGISSL AVLKSSVRIT  
 CTGNTVVTQP LTDSGRAVVA RLTTQLGQYN TAENTFSFPA SDAVDERERL TAPSTIEVLR  
 KLQFESGYSD ASLPLLMGGF AFDLETFTET LPAVEESVNT YPDYQFVLA IVLDINHQQDQ  
 TAKLAGVSNA PGELEAELNK LSLIDAAALP ATEHAYQTP HDGDTLRVVA DIPDAQFRTQ  
 INELKENIYN GDIYQVVPAR TFTAPCPDAF AAYLQLRATN PSPYMFYIRG LNEGRSYELF  
 GASPELNKF TAANRELQLY PIAGTRPRGL NPDGSINDEL DIRNELDMRT DAKELAEHTM  
 LVDLARNDLA RVSVPASRRV ADLLQVDRYS RVMHLVSRVT ATLDPEDDAL DAYRACNMNG  
 TLTGAPKLRA MELLRGVEKR RRGSYGGAVG YLRGNGMDMN CIVIRSAFVQ DGVAQVQAGA  
 GVVRDSNPQS EADETLHKAY AVLNAIALAA GSTLEVIR

>RXN00969 TRANSLATE of: rxn00969.seq check: 5693 from: 1 to: 1335  
 MTSASAPSFN PGKGPSSAVG IALLGFGTVG TEVMRLMTEY GDELAHRIGG PLEVRIAVS  
 DISKPREGVA PELLTEDAFA LIEREDVDIV VEVIGGIEYP REVVLAALKA GKS SVTANKA  
 LVAHSAELA DAAEAANVDL YFEAAVACAI PVVGPLRRSL AGDQIQSVGM IVNGTTNFIL  
 DAMDSTGADY ADSLAEATRL GYAEADPTAN VEGHDAASKA AILACIAFHT RVTADDVYCE  
 GIRNINAADI EAAQQAGHTI KLLAICEKET NKEGKSAISA RVHPTLLPVS HPLASVKNKS  
 NAIFVEAEAA GRLMFYNGA GGAPTASAVL GDVVGAAARNK VHGGRAPGES TYANLPIADF  
 GETTTRYHLD MDVEDRVGVL AELASLFSEQ GISLRTIRQE ERDDARLIV VTHSALES  
 SRTVELLKAK PVVKAINSVI RLERD

>RXN01026 TRANSLATE of: rxn01026.seq check: 8609 from: 1 to: 1659  
 MTSPVENSTS TEKLTAEKV WRDHVVSKEG NGEPDLYID LQLLHEVTSP QAFDGLRMTG  
 RKLHPELHL ATEDHNPTE GIKTGSLLI NDKISRLQVS TLRDNCEEFV VRLHPMGDVR  
 QGIVHTVGPQ LGATQPGMTI VCGDSHTSTH GAFGSMAFGI GTSEVEHVMA TQTLPLKPKF  
 TMAIEVTGEL QPGVSSKDLI LAIIAKIGTG GGQGYVLEYR GEAIRKMSMD ARMTMCNMSI  
 EAGARAGMIA PDQTTFDYVE GREMAPKGAD WDEAVAYWKT LPTDEGATFD KVVEIDGSAL  
 TPFITWGTNP GQGLPLGESV PSPEDFTNDN DKA AEKALQ YMDLVPGTPL RDIKIDTVFL  
 GSCTNARIED LQIAADILKG HKIADGMRMM VVPSSTWIKQ EAEALGLDKI FTDAGAEWRT  
 AGCSMCLGMN PDQLKPGERS AFTSNRNFEQ RQGPGRTHL VSPAVAAATE SADPVLTCRY  
 LRKARKQWKN LPPTPALAFH CSDPTWTPTR SSQPSTSSAS PGPASKTDCF PTGAKTPTL  
 SSTPTPTRTA PFS

>RXN01027 TRANSLATE of: rxn01027.seq check: 2562 from: 1 to: 1008  
 MANKNNKPHE VDKDQDSAML INGRLLQIPA RPTEEFTRPT LAAGAVLWRG DITNPDSIEV  
 AVIHRPHYDD WSLAKGKVPD GESIPTTAAR EILEETGYDI RLKGLIGKVT YPVLDRTKVV  
 YYWTAQVLGG EFVFNDEVE IRWLSVDEAC ELLSYQVDTE VLAKAAKRRF TPSTTRVLV  
 RHAAHGRQT WGGDDNKRPL DKKGRRQAEM LVPMLLPFKP TAIYSAVPDR CQATALPLAD  
 ELGLDVSVN LFGLDAWETD PEACKKRFTD VVAQGVPMI VGQGDIIPEM IKWFSNGTL  
 PIDEKIKAKK GSVVLSFHD GVFTGADYLA SSLPVK

>RXN01079 TRANSLATE of: rxn01079.seq check: 5671 from: 1 to: 2103  
 MDFHALNALL NLYDDNGKIQ FEKDREAAANQ YFLQHVNQNT VFFHNLQEKI DYLVENKYYD  
 PIVLDKYDFQ FIKDLFKRAY GFKFRFQSFL GAYKYYTSYT LKTFDGRRYL ERFEDRVCMV  
 ALTADGDRA LAENLVDEIM SGRFQPATPT FLNSGKAQRG EPVSCFLLRI EDNMESIGRS  
 INSALQLSKR GGGVALLLSN LREAGAPIKK IENQSSGVIP VMKLLLEDAFS YANQLGARQG  
 AGAVYLNAHH PDILSFLDTK RENADEKIRI KTLSSLGVVIP DITFELAKRN DDMYLFSPYD  
 VERIYGKPPA DVSITEHYDE MVDDDRIRKT KINARQFFQT LAEIQFESGY PYIMYEDTVN  
 ASNPIEGRIT HSNLCSEILQ VSTPSEFNDD LTYAEVGEDI SCNLGSLNVA MAMDAPNFEK  
 TIETEIRGLT AVPEQTSIDS VPSIRKNEA AHAIGLGQMN LHGYFGREHM HYGSEELDF  
 TNAYFAAVLY QCLRASNQIA TERGERFKNF ENSKYATGEY FDDFDANDFA PKSDKVKELF  
 AKSNIHTPTV EDWAALKADV MEHGLFNRL QAVPPTGSIS YINNSTSSIH PIASKIEIRK  
 EGKIGRVYYP APHMDNDNLE YFEDAYEIGY EKIIDTYAVA TKYVDQGLSL TLFFKDTATT  
 RDINRAQIYA WRKGIKTLYY IRLRQVALEG TEVDGCVSCM L

>RXN01095 TRANSLATE of: rxn01095.seq check: 7184 from: 1 to: 783  
 MVATENRMLM EIAAEISARE ATLGFEVKT KSRSAGLTAA FDIASVFFSS GCNVVAFDR  
 FASNWSHDSD HVDYAAQVAG FGASMLAYTV RRGQFDTAVR DIRDIKSEVD IPILLHDPII  
 DPYQIHEARV MGIDALQFPV WAMEQARLES LVDRTESLGM TAIVSVRNHE EAHRAVDAGA  
 TVVAIDITGY TGSLLTPEAF SGITQFMPKE VARIVLGGCS SPKELMRFAH HSADAIFVPH  
 ADLATTKSLV TAGMHPACPS R

>RXN01104 TRANSLATE of: rxn01104.seq check: 5920 from: 1 to: 606  
 MTVAPRIGTA TRTTSESIT VEINLDGTGK VDIDTGLPFF DHMLTAFGVH GSFDLKVHAK  
 GDIEIDAHHT VEDTAIVLGQ ALLDAIGDKK GIRRFAQCQL PMDEALVESV VDISGRPYFV  
 ISGEPDHMIT SVIGGHYATV INEHFFETLA LNSRITLHVI CHYGRDPHHI TEAEYKAVAR  
 ALRGAVEMDP RQTGIPSTKG AL

>RXN01115 TRANSLATE of: rxn01115.seq check: 5062 from: 1 to: 753  
 MAILHSVSYG TSDNTLVFIG SLGSTTDMWL PQLDALHKDF RVIAVDHRGH GLSELIEGTP  
 TVADLAQDVL DTLDDLGVGN FGVIGLSLGG AVAQYLAATS DRVTKAFFMC TAAKFGEPOG  
 WLDRAAACRE NGTGSLSSEAV IQRWFSPTWL ENNPASREHF EAMVAGTPSE GYALCCEALA  
 TWDFTDRLGE ITVPVLTIIAG ADDPSTPPAT VQIIADGVGG ESRAEVLSPA AHVPTVERPN  
 EVNELLAQHF A

>RXN01116 TRANSLATE of: rxn01116.seq check: 6039 from: 1 to: 612  
 MAARVAQELE DGQYVNLGIG MPTLIPGYLP EGLEVILHSE NGVLGVGPYP TEEELDPOLI  
 NAGKETITVA PGASYFSSSD SFAMIRSKSV DVAVLGVMEV SQYGDLANWM IPGKLVKGMG  
 GAMDLVHGAS KIIAMTDHIT KKGAPKILKE CRLPLTGAKC VDMIVTTHAV FSVDPPEGLT  
 LIECADGVTV EELREITEAD FKVA

>RXN01127 TRANSLATE of: rxn01127.seq check: 8381 from: 1 to: 1020  
 MKLAVIGGDG IGPEVTAEAL KVLNAVRRDI ETDDYDLGAR RYLKNGELLT DEDLASLREH  
 DAILLGAIGA PGSVPPGILE RGLLLKMRFA LDHHVNLRPS KLYDGVESPL RNPBKIDFVV  
 VREGTEGAYT GNGGAIRVGT PHEIANETSV NTRYGAERVI RYAFELAQSR RKKLTLVHKT  
 NVLVHGGGLW QRTVDEVAKE YPEVAVDYNH IDAATIYLV TDPFRFDVIVT DNLFGDILTD  
 EAGAVSGGIG LAASGNIDAT GTNPSMFEPV HGSAPDIAGQ GIADPTAAIL SAAMLLRHLG  
 DEDNAVRIET AIAADVAGRD NSQPISTTEV GDRIVKALQS

>RXN01162 TRANSLATE of: rxn01162.seq check: 4305 from: 1 to: 1326  
 MYIVGICLQL VVMSQPMSAP DSAPGTERGH ERTHFAVVDG SQDPAQATAP RAPAESITLI  
 GIGTDGFEGL GLKAQQALQR ASVVISGWRQ LNLVPDAIKA ERRPWPNTK HPDLDALEKE  
 FLGRHVAVLA SGDPLFYGVG TAMVHVLGMD RLTVIPGPSS ASLACARLGW TVNRTRVVYL  
 GQEPITLIP IIESGAQFLV LGKDEFSTAQ VATLLNELGL GETPLTVLSD LGSTDEEITQ  
 GTASHPPAAV SVLNVIAGVA RTAMPKPHFE GDVSNEDLRA LTVAALEPTQ GQMLWTFGDI  
 GAALACDWLR AAGNKAHAIS FASMVEQSQR NARKLGVSTL SVKETLSPKT LKDIRYVQGP  
 ESASPHAIFM NKGLGIDLVP ETAWMMLRPG GKLIQAQASTE DNIAKLHTLQ EQHGIIKHI  
 RIDDDTVHQW RVTKPVTPEA VN

>RXN01209 TRANSLATE of: rxn01209.seq check: 6515 from: 1 to: 1428  
 MCERPEKYVT DFSLYLVTDV VLGGGPKKVA GIVDSAISGG VSVVQLRDKN SGVEDVRAAA

KELKELCDAR GVALVVNDYL DIAVELGLHL HIGQGDTPYT QARELLPAHL ELGLSIENLD  
 QLHAVIAQCA ETGVALPDVI GIGPVASTAT KPDAAPALGV EGIAEIAAVA QDHGASVAI  
 GGVGLRNAAE LAATPIDGLC VVSEIMTAAN PAAAATRLRT AFQPTFSPET QTELSQTELQ  
 GAFVNSPSAP RVLSIAGTDP TGGAGIQADL KSIAAGGGYG MCVVTSLV AQ NTHGVNTIHT  
 PPLTFLEEQL EAVFSDVTV D AIKLGMLGSA DTVDLVASWL GSHEHGPVVL DPVMIATSGD  
 RLLDASAEES LRR LAVHVDV VTPNIPELAV LCD SAPAITM DEAI AQAGF ARTHDTIVIV  
 KGGH LTGALA DNAVVRPDGS VFQVENLRVN TTNSHGTGCS LSASLATKIA AGESVE

>RXN01239 TRANSLATE of: rxn01239.seq check: 4668 from: 1 to: 2433  
 MARPISATYR LQMRGPQADS AGRSFGFAQA KAQLPYLKKL GISHLYLSPI FTAMPDSNHG  
 YDVIDPTTIN EELGMEGLR DLAAATHEL G MGIIDIVPN HLGVAVPHLN PWWVDVLKNG  
 KDSAFEYFD IDWHDNGSG GKLGMPIGA EGDEKLEFA ELDGEKVLKY FDHLPFIAPG  
 TEEGTPQEVY KRQHYRLQFW RDGVINFRF FSVNTLAGIR QEDPLVFEHT HRLRLRELVAE  
 DLIDGVRVDH PDGLSDPFGY LHRLRDLIGP DRWLIIEKIL SVDEPLDPRL AVDGTGTYDA  
 LRELDGVFIS RESEDKFSML ALTHSGSTWD ERALKSTES LKRVAQQL AAEILRLARA  
 MRRDNFSTAG TNVTEDKLSE TIIELVAMP VYRADIISL RTTATVIAEM SKRFPSSRAA  
 LDLIAAALLG NGEAKIRFAQ VCGAVMAKGV EDTTFYRASR LVALQEVGGA PGRFGVSAAE  
 FHLLQEERSL LWPRTMTTSL THDTRKGEDT RARIISLSEV PDMYSELVNR VFAVLPA PDG  
 ATGSFLLQNL LGVWPADGVI TDALRDRFRE YALKAIRES TKTTWVDPNE SFEAAVCDWV  
 EALFDGPSTS LITEFVSHIN RGSVQISLGR KLLQMVGAGI PDTYQGTFL EDSLVDPDNR  
 RFVDYTAREQ VLERLQTWAW TQVNSVEDLV DNADIAKMAV VHKSLELRAE FRASFVGGDH  
 QAVFGEGRAE SHIMGIARGT DRNHLNIAL ATRRPLIED RGGWYDTT VT LPGAQWEDRL  
 TGQRFSGVVP ATDLFSLHPV SLLVLVPDSE F

>RXN01240 TRANSLATE of: rxn01240.seq check: 5900 from: 1 to: 1023  
 MSDNTLSQFG SYHEFRRAH PMADVEFLA IEELLTDGGV TFDRTVTRIK EWSSLKAKAR  
 KRRNDGSLIY PDPRKDIHDM IGVRIITYHS TEIPVALKVL QDSFIVHKS DKAETRISG  
 GFGYGSHHLI LEVDDTSDDL QDYKGLVFEV QVRTVLQHAW AEFEDIRYK RADVSNPEDF  
 SAEVDRMFTL AAGLIELADQ QFDQIAALKE TSRVADESVE LTAETLPGVL AMLIGNRFPR  
 PRSTNYRFE DILVANSITS VVQLRELLNP TDIEVLLKVM NYRFHPGQIR IIDDLLLKRF  
 GQSHIDATVA TDSQPLNAKR HRQLKRKLEL MTQAHLVEPP N

>RXN01304 TRANSLATE of: rxn01304.seq check: 600 from: 1 to: 486  
 MPAQKNLPG SVIVVSDRIK SGERIDKAGP VAVDLLQESG VEISTFTVVE EGFEPVHQEL  
 VKALARDRV IITIGGTGVG PRNRTPEATE PHIDTLLPGL MTQILFSGLS NTAQAGLSRG  
 LVGLSARDST AALIVNAPSS SGGVRDALGV VCPLFGSIFE RL

>RXN01321 TRANSLATE of: rxn01321.seq check: 6043 from: 1 to: 921  
 MQRMTPSSPE VRNRPSAAPE ERQFVLTFGC PDSTGIVAKL SSFLAERGGW ITEAGYFTDP  
 DSNWFFTRQA IRAESIDTTI EQLREEFAPL AEEFGPRAKW SFTDTAQVKK AVLLVSKEGH  
 CLHDLGRVA ENDYPMEVVA VVGHNENLRY IAENHNVPFF HVPFPKDAVG KRKAQDQVAE  
 IVNGYDPDAI VLARFMQILP PDLCEMWAGR VLNIHHSFLP SFMGARPYHQ AYSRGVKLIG  
 ATCHYATGDL DDGPIEQDV IRVTHKDTPT EMQRLGRDAE KQVLARGLRF HLEDRLVYV  
 NRTVVFD

>RXN01413 TRANSLATE of: rxn01413.seq check: 5704 from: 1 to: 600  
 LTHLFLELDE RLVLGQQDG YQWTEHLFRL PLQHLRNSPN DLQGLKIRWC ELYSTTGKDG  
 GVLLPQATV VTPNNFEAST LSGLEKLETV EDLKEAARLI YEQGPQYVVV KGGMDFPGEN  
 AVDVLFDGSS YHVFSEPKIG EERVSGAVCT FAAVITAE LA KGAEVVDPVA TAKRVVTRAV  
 QDAVASNAF TSVWLAEDNK

>RXN01420 TRANSLATE of: rxn01420.seq check: 1274 from: 1 to: 942  
 VTGGLNVPS WSLGAEMLFY LTFPLFIPLV RKVKGVGNWW AFGITFAVSL ALITVIHFYA  
 DGPKGIEFF VPRLWDTNVS PVAEVHADPV WFMQEEIPVL ESYWLSYFYP LTRLIEFYLG  
 VFGAKLVAEG MFKNTNITIP LIALAVSFVA TWFVPLAFKM SVIMSLPMAF VVATLAVRDI  
 EGKSGEIASP RAVLLGNISF AFYMQFPVM VFVQRYFIAG KEYGFLGWAF YAVVCFIVSV  
 ILAWLFTFV DDPLMKATAR KKGSRRLKQS NILVRDLKVL FGKSPEKPLK VETRAENLTE  
 NSEAPAKVAT GIKS

>RXN01488 TRANSLATE of: rxn01488.seq check: 8876 from: 1 to: 948  
 MSKKAILDID TGIDDALALA YALGSPELEL IGVTTYGNV LLETGAVNDL ALLDLFGAPE



VPVYLGEPAH QTKDGFVLE ISAFIHGQNG IGEVELPASE SKALPGAVDF LIDSVNTHGD  
 DLVIIATGPM TNLSAAIAKD PSFASKAHVV IMGGALTVPG NVSTWAEANI NQDPDAANDL  
 FRSGADVMTI GLDVTLQTLT TKKHTAQWRE LGTPAAIALA DMTDYYIKAY ETTAPHLGGC  
 GLHDPPLAVGV AVDPSLVTL PINLKVDIEG ETRGRTIGDE VRLNDPVRTS RAAVAVDVDR  
 FLSEFMTRIG RVAAQQ

>RXN01560 TRANSLATE of: rxn01560.seq check: 2973 from: 1 to: 330  
 VGVSYIIAGD EQLDMAEAVR KIGETFKTEE IILGGGGTLN WSMLRDGLCD EVSIVMMPIA  
 DGEKHTSLF EADEKYSAPL PIGFSLASVE PLEDGSVWMR YGVNGPVDAN

>RXN01617 TRANSLATE of: rxn01617.seq check: 7053 from: 1 to: 672  
 LILKTTGITV LSRFDAQVIA NQIEAATAAH DLDVVKIGML GTPATIDTVA TALEENSKFH  
 VVLDPVLICK GQEPGAALDT DTALRAKVLP QATVVTPNNF EATTLGLDK LETIDDLKEA  
 ARLIHEQGPQ YVVVKGGIDF PGDNAVDVLF DGTDYHVFSE PKIGDERVSG AGCTFAAVIT  
 AELAKGNSAV DAVTTAKRVV TRAVKDAVAS NAPFTSVWLA EDNK

>RXN01657 TRANSLATE of: rxn01657.seq check: 7845 from: 1 to: 600  
 VIVGVLLALQG GVEEHLTALE ALGATTRKVR VPKDLGLEG IVIPGGESTV LDKLARTFDV  
 VEPLANLIRD GLPVFATCAG LIYLAKHLDN PARGQOTLAV VDVVVRNNAF GAQRESFDTT  
 VDVSFDGATF PGVQASFIRA PIVTAFGPTV EAIAALNGGE VVGVRQGNII ALSFHPEETG  
 DYRIHQAWLD LVRKHAELAI

>RXN01690 TRANSLATE of: rxn01690.seq check: 7996 from: 1 to: 1101  
 MTSLEFTVTR TENPTSPDRL KEILAAPKFG KFFTDHMTI DWNESEGWHN AOLVPYAPIP  
 MDPATTVFHY GQAIPEGIKA YRHSDETIKT FRPDENAERM QRSARMAMP QLPTEDFIKA  
 LELLVDADQD WVPEYGGAS LYLRPFMIST EIGLGVSPAD AYKFLVIASP VGAYFTGGIK  
 PVS VWLSEY VRAAPGGTGD AKFAGNYAAS LLAQSQAEEK GCDQVWLDA IEHKYIEEMG  
 GMNLGFIYRN GDQVKLVTP LSGSLLPGIT RKSLLQVARD LGYEVEERKI TTTEWEEDAK  
 SGAMTEAFAC GTAAVITPVG TVKSAHGTFE VNNNEVGEIT MKLRETLTGI QQGNVEDQNG  
 WLYPLVG

>RXN01698 TRANSLATE of: rxn01698.seq check: 9592 from: 1 to: 1230  
 MLGMLRWTTA GESHGQALIA TVEHMPAGVP VTKDEVSYQL ARRLGYGRG ARMKFEQDAL  
 TFLTGIRHGL TLGSPISIMI GNTEWDKWT IMSSDALDME DPDNVAAMSS GRGAKLTRPR  
 PGHADYAGML KYGFDDARNV LERSARETA ARVAAATVAR SFLRETGLVE VLSHVISIGA  
 SEPYTGAAPT FADIQAIDDS PVRAFCKDAE ESMIAEIEAA KKAGDTLGGI VEVIEGLPI  
 GLGSHISGED RLDAQIAAAL MGIQAIKVE IGDGFEEARR RGSEAHDEVF LDDNGVYRNT  
 NRAGGLEGGM TNGETLRVRA GMKPISTVPR ALKTIDMENG KAATGIHQRS DVCAPPAAGV  
 VAEAMVTLVL ARAVLQKFGG DSLSETKSN DTYLKNIEER MKFEGLEDGA

>RXN01712 TRANSLATE of: rxn01712.seq check: 1222 from: 1 to: 696  
 MVDILELIGP LPFVSTPELR AIVVTAINGS TTINGTSGQL GNSTDTELL ALRRWSDVVL  
 VGSSTVKAEN YGGVEVSPEI QKQRELQGE AIPPIAVMSG SLNFDVDTRF FLEAEVPPII  
 ITDNSDQAKQ QRLVDAGAQQ IEVETLTAEV GVEKLRLSLY ARIDCEGGAT LYQMLAADL  
 VDVWHHTIDP TSGSVERPT VKGGDDAPRR FALEHVFVDD DSTLFLRYKR AK

>RXN01810 TRANSLATE of: rxn01810.seq check: 7446 from: 1 to: 1077  
 MNNAFRRTLT SVVLAASLAL TACASWDSPT ASSNGDLIEE IQASSTSTDP RTFTGLSIVE  
 DIGDVVPVTD NASPALPVSL TDADGNDVV ENVSRILPLD LYGTYSKTIA GLGLVDNIVG  
 RTVSSTEPAL ADIEVVTTGG HTLNAEAILN LHPTLVIIH SIGPREVIDQ IRAAGVATVI  
 MSPQRSIASI GDDIRDIASV VGLPEEGEKL AERSVAEVEE ASTVVDELTP EDPLKMFVLY  
 ARGTTGGVFFI LGDAYGGRDL IEGLGGVDMA AEKGIMDLAP ANAEALAEIN PDVFVMMSEG  
 LVSTGGIDGL MERPGIAQTT AGQNQRVLAL PDGQSLAFGA QTGELLRLAS RELYVQGE

>RXN01892 TRANSLATE of: rxn01892.seq check: 2496 from: 1 to: 729  
 VTTSSSEQPT GYKRVMLKLK GEMFGGKVG VDPDVVDNVA RQIAEVAKTG AEIAVVIGGG  
 NFFRGAEQQ RGMDRARSY MGMLGTVMNC LALQDFLGQH GVECRVQTAI NMAQVAEPYL  
 PLRAERHLEK GRVVIIFGAGM GMPYFSTDTT AAQRALEIGC DVLLMAKAVD GVSDDPRTN  
 PDAELFTEIT PKEVIEKGLK VADATAFSLC MDNKMPIVLF NLLTEGNIAR AISGERIGTL  
 VES

>RXN01920 TRANSLATE of: rxn01920.seq check: 452 from: 1 to: 1002  
 MAADSDLSVH DAYLKEHVAP VKAINWNSIP DSKDLEVWDR LTGNFWLPEK VPVSNDIKSW  
 GTLNVEVEKAA TMRVFTGLTL LDTIQGTVGA ISLLPDADSL HEEAVLTNIA FMESVHAKSY  
 SNIFMTLAST AEINDAFRWS EENENLQRKA KIILSYEGD DPLKRKIASV ILESFLFYSG  
 FYLPMYWSSH SKLANTADVI RLIIRDEAVH GYYIGYKYQK AVAKETPERQ EELKEYTFDL  
 LYDLYDNETQ YSEDLYDDLQ WTEDVKRFLR YNANKALNNL GYEGFLPADE TKVSPNILSA  
 LSPNADENHD FFSGSGSSYV IGKAENTEDD DWDF

>RXN01929 TRANSLATE of: rxn01929.seq check: 5174 from: 1 to: 813  
 MPMSGIDAKK IRTRHFREAK VNGQKVSFLT SYDALSARIF DEAGVDMLLV GDSAANVVLG  
 RDTTSLITLD EMIVLAKAVT IATKRALVVV DLPFGTYEVS PNQAVESAIR VMRETGAAAV  
 KIEGGVEIAQ TIRRIVDAGI PVVGHIGYTP QSEHSLGGHV VQGRGASSGK LIADARALEQ  
 AGAFAVVLEM VPAEAAREVT EDLSITTIGI GAGNGTDGQV LVWQDAFGLN RGKKPRFVRE  
 YATLGDSLHD AAQAYIADIH AGTFPGEAES F

>RXN01940 TRANSLATE of: rxn01940.seq check: 4990 from: 1 to: 936  
 MTTKIILDCD PGHDDAVAML LAAGSPEIEL LGITTVGGNQ TLDKVTHTNTQ VVATIADINA  
 PIYRGVTRPL VRPVEVAEDI HGDTGMEIHK YELPEPTKQV EDTHAVDFII DTIMNNEPGS  
 VALVPTGFLT NIALAVRKEP RIAERVKEVV LMGGGYHVGN WTAVAEFNIK IDPEAAHIVF  
 NEKWPLTMVG LDLTHQALAT PEIEAKFNEL GTDVADFVVA LFDAFRKNYQ DAQGFDPNPV  
 HDPCAVAYLV DPTVFTTRKA PLDVELYGAL TTGMTVADFR APAPADCTTQ VAVDLDFDKF  
 WNMVIDAVKR IG

>RXN02008 TRANSLATE of: rxn02008.seq check: 2069 from: 1 to: 1134  
 VYAAIGVVHS LFNALPGRFK DYISAPRFGV YQSLHTTVMG PGGKPLEVQA RTHDMHYNAE  
 FGIAAHWRYK ETKGSHSGEQ AEVDQMAWMR QLLDWQKEAA DPNEFLDSL RYDLTSKQIFV  
 FTPKGDVVNL PVNSTPVDFE YAVHTEVGHR CIGAKINGKL VALETCLKSG DRVEVFTSKD  
 QNAGPSRGWQ EFVVSPRAKA KIRQWFAKER REEYLEAGRD ALAAVIQRRG LPMHRLFTAS  
 SMKTVADELH YPDVDALYTA IGSGSVSAQH VVNRLMAIFG DEEDAEDALV ARTPFSELVN  
 SRATTESSTG ILVEGSPDVM AKLAKCCMPV PGDEIFGFVT RGGGVSVHRT DCTNVEKLKE  
 EPERIVSVSW ASEGGGSV

>RXN02027 TRANSLATE of: rxn02027.seq check: 4731 from: 1 to: 501  
 MSQTKQELRT KLREARTNMD EASRTRENAA IIANVSYIIR SKQPKRIAAY VPVRTEPGGR  
 LLLDALHAET SALILPVSLE DRRLDWALYE GPTSLVPGAF GIQEPGGTRL GPEALNFCDL  
 VIAPALACTP SGIRLGKGGG FYDRALATGV KADVITLLFN GEIRDDI

>RXN02085 TRANSLATE of: rxn02085.seq check: 9107 from: 1 to: 2235  
 MTSNFSSTVA GLPRIGAKRE LKFALEGYWN GSIEGRELAQ TARQLVNTAS DSLSGLDSPV  
 FAGRSYYDAM LDAAAILGVL PERFDDIADH ENDGLPLWID RYFGAARGTE TLPAQAMTKW  
 FDTNYHYLVP ELSADTRFVL DASALIEDLR CQQVRGVNAR PVLVGPLTFL SLARTDGSN  
 PLDHLPALFE VYERLIKSF TEWVQIDEPA LVTDVAVEVL EQVRAGYTTL AKRDGVFVNT  
 YFGSGDQALN TLAGIGLGAI GVDLVTHGVT ELAAWKGEEL LVAGIVDGRN IWRDLCAL  
 ASLKRLAARG PIAVSTSCSL LHVPTLEAE NIEPEVRDWL AFGSEKITEV KLLADALAGN  
 IDAAAFDAAS AAIASRRTSP RTAPITQELP GRSRGSFDTR VTLQEKSL ELGLDVLVHG EPERNDMVQY  
 FPQTPSIRSA RARLRKESIT LEQYEEAMRE EIDLVIKQE ELGLDVLVHG EPERNDMVQY  
 FSELDDGFLS TANGWVQSYG SRCVRPPVLF GNVSRPAPMT VKWFQYAQSL TQKHVKGMLT  
 GPVTILAWSF VRDDQPLATT ADQVALALRD EINDLIEAGA KIIQVDEPAI RELLPLRDVD  
 KPAYLQWSVD SFRLATAGAP DDVQIHTHMC YSEFNEVISS VIALDADVTT IEAARSMDQV  
 LAALKSSGFE LGVGPGVWDI HSPRVPSAQK VDGLLEAALQ SVDPRQLWVN PDCGLKTRGW  
 PEVEASLKVL VESAKQAREK IGATI

>RXN02153 TRANSLATE of: rxn02153.seq check: 56 from: 1 to: 780  
 MIMHNVYGVV MTKIVAIAGA SGYAGGEILR LLLGHPAYAS GELEIGALTA ASTAGSTLGE  
 LMPHIPQLAD RVIQDTTAET LAGHDVVFLG LPHGFSAEIA LQLGPDVTVI DCAADFRLQN  
 AADWEKFYGS EHQGTWPYGI PEMPGHREAL RGAKRVAVPG CFPTGATLAL LPAVQAGLIE  
 PDVSVVSITG VSGAGKASV ALLGSETMGS LKAYNTSGKH RHTPEIAQNL GEVSDKPVKV  
 SFTPVLAFLP REFSPLQPHL

>RXN02154 TRANSLATE of: rxn02154.seq check: 6613 from: 1 to: 291  
 LKEGVTAEQA RAVYEEFYAQ ETFVHVLPEG AQPQTQAVLG SNMCHVQVEI DEEAGKVLVT

SAIDNLTGKT AGAAVQCMNL SVGFDEAAGL PQVGVAP

>RXN02162 TRANSLATE of: rxn02162.seq check: 5865 from: 1 to: 1431  
 MEQHGTNEGA LWGGRFSGGP SEAMFALSVS THFDWVLAPY DVLASKAHAK VLHQADLLSD  
 EDLATMLAGL DQLGKDVADG TFGPLPSDED VHGMERGVV DRVGPEVGGP LRAGRSRNDQ  
 VATLFRMWVR DAVRDIALGT TELVDALSAQ AKAHAGAIMP GKTHFQAAQP VLLAHQLLAH  
 AQPLLRDIDR IRDLDKRLAV SPYGGALAG SSLKLNPEAI AEELGFDSAA DNSIDATSSR  
 DFASETAFVL AQLAVDMSRL AEELIAWCTP EFGYITLSDS WSTGSSIMPQ KKNPDVAELT  
 RGKSGRLIGN LTGLLATLKA QPLAYNRDLQ EDKEPIVDSV AQLNLLLPLAM TGLVSTLTFTN  
 TERMRELAPA GFTLATDLAE WMVRQGVFPR EAHEASGACV RIAESRGVDL IDLTDEELSG  
 VDARLTPEVR EVLTIDGAVA SRATRGGTAG VRVAEQRARV DAASTAHAEW ARAGVRR

>RXN02198 TRANSLATE of: rxn02198.seq check: 9108 from: 1 to: 2499  
 MSTSVTSPAH NNAHSSEFLD ALANHVLIQD GAMGTQLQGF DLDVEKDFLD LEGCNEILND  
 TRPDVLRQIH RAYFEAGADL VETNTFGCNL PNLADYDIAD RCRELAYKGT AVAREVADEM  
 GPGRNGMRRF VVGSGLPGTK LPSLGHAPYA DLRGHYKEAA LGIIDGGGDA FLIETAQDLL  
 QVKAHVHVQ DAMAELDTFL PIICHVTVET TGTMLMGSEI GAALTALQPL GIDMIGLNCA  
 TGPDEMSEHL RYLSKHADIP VSVMPNAGLP VLKNGAEYP LEAEDLAQAL AGFVSEYGLS  
 MVGGCCGTTT EHIRAVRDAV VGVPEQETST LTKIPAGPVE QASREVEKED SVASLYTSVP  
 LSQETGIMI GERTNSNGSK AFREAMLSGD WEKCVDIKQ QTRDGAHMLD LCVDYVGRDG  
 TADMATLAAL LATSSTLPIM IDSTEPEVIR TGLEHLGGRS IVNSVNFEDG DGPESTRYQRI  
 MKLVKQHGA VVALTIDEEG QARTAEHKVR IAKRLIDDIT GSYGLDIKDI VVDCLTFPIS  
 TGQETRRDG IETIEAIREL KKLYPEIHTT LGLSNISFGL NPAARQVLNS VFLNECIEAG  
 LDSAIAHSSK ILPMNRIDR QREVALDMVY DRRTEDYDPL QEFMQLFEGV SAADAKDARA  
 EQLAAMPLFE RLAQRIIDGD KNGLEDDLEA GMKEKSPIAI INEDLLNGMK TVGELFGSGQ  
 MQLPFVLQSA ETMKTAIVAYL EPMEEEAEEA TGSQAEGKG KIVVATVKG DHDIGKNLVD  
 IILSNNGYDV VNLGIKQPLS AMLEAAEEHK ADVIGMSGLL VKSTVVMKQT ISD

>RXN02234 TRANSLATE of: rxn02234.seq check: 4131 from: 1 to: 3339  
 MPKRSDINHV LVIGSGPIVI GQACEFDYSG TQACRVLKEE GLRVTLINSN PATIMTDPEM  
 ADHTYVEPIE PEYIDKIFAK EIEQGHPIA VLATLGGQTA LNAAIQLDRL GILEKYGVEL  
 IGADIDAIER GEDRQKFKDI VTTIGGESAR SRVCHNMEEV HETVAELGLP VVVRPSFTMG  
 GLGSGLAYNT EDLERIAGGG LAASPEANVL IEESILGWKE FELELMRDTA DNVVVICISIE  
 NVDALGVHTG DSVTVAPALT LTDREFQKMR DQGIATIREV GVDGTGGCNIQ FAINPVDGRI  
 ITIEMNPRVS RSSALASKAT GFPIAKMAAK LAIGYTLDEI TNDITGETPA AFEPTIDYVV  
 VKAPRFABEK FVGADDTLTT TMKSVGEVMS LGRNIAALN KALRSLETQ QGFWTKPDEF  
 FAGERATDKA AVLEDLKRPT EGRLYDVELA MRLGASVEEL YEASSIDPWF LAELEALVQF  
 RQKLVDAPFL NEDLLREAKF MGLSDLQIAA LRPEFAGEDG VRTLRLSLGI RPFVKTVDTC  
 AAEEFAKTPY HYSAYELDPA AESEVAPQTE REKVLILGSG PNRIGQGIEF DYSCVHAAL  
 LSRVGYETVM VNCNPETVST DYDTADRILY EPLTFEDVME VYHAEQSGT VAGVIVQLGG  
 QTPLGLADRL KKAGVPVIGT SPEAIDMAED RGEFGALLNR EQLPAPAFGT ATSFEEARTV  
 ADEISYPVLV RPSVVLGGRG MEIVYDEASL EFGYINRTEL SSDHPVLVDR FLDNAIEIDV  
 DALCDGDEVY LAGVMEHIEE AGIHSGDSAC ALPPMTLGAQ DIEKVREATK KLAGLIGVQG  
 LMNVQYALKD DILYVIEANP RASRTVPFVS KATGVNLAKA ASRIAVGATI KDLQDEGMIP  
 TEYDGGSLPL DAPIAVKEAV LPFNRFRRPD GKTLDLTLSP EMKSTGEVMG LANNFGAAYA  
 KAEAGAFGAL PTEGTVFVTV ANRDKRTLIL PIQRLALMGY KILATEGTAG MLRRNGIECE  
 VVLKASDIRE GVEGKSIVDR IREGEVDLIL NTPAGSAGAR HDGYDIRAAA VTVGVPLITT  
 VQGVTAAVQG IEALREGVVS VRALQELDHA VKA

>RXN02246 TRANSLATE of: rxn02246.seq check: 1512 from: 1 to: 984  
 MDVAHALDLA HHVSDQVRGT TSPNPPVGAV ILDADGEVVG VGATAPPGGP HAEVVALAAA  
 GVRANGGTAV VTLEPCNHYG RTGPCSKALL DAGIAHVIFY NADPFPSAAG GGAFALAEAGV  
 DTHFLDERIR ALEPWLVAIR LGRPHVTLKF ASTVDGFAGA TDGTSQWITG PDARAFVHED  
 RSKRDIAIIV TGTALTDNPS LTARTDTGLY ENQPRRVIG SREVPADSNL ARLGYEQYAG  
 IPEALSALWD KGCARDILIEG GPTLAGAALR LGIVDQVQAY VAPALLGAGR SVINWPQETT  
 MDQIMRFDTT SVRQLGSDVL IEMMRKEH

>RXN02248 TRANSLATE of: rxn02248.seq check: 4306 from: 1 to: 1266  
 VSEHEQAHSQ LDSVEEAIAD IAAGKAVVVV DDEDRENEG IIFAAELATP ELVAFMVRYS  
 SGYICAPLTA KDADRLDLP MTAHNQDARG TAYTVTV DAN TGTGIGSATD RAHTLRLLAD  
 PEADRTDFTR PGHVPLRLAR EGGVLVRAGH TEAAVDLARA AGLRPAGVIC EVVSEEDPTG

MARVPELRRF CDEHDLKLIS IEQLIEWRRK NEILVERQVE TVLPTDFGTF KAVGYRSIID  
 GTELVAIVAG DVASDGGENV LVRVHSECLT GDVFGSRRCD CGQQLHESLR LIQEAGRGVV  
 VYMRGHEGRG IGLLAKLRAY QLQDEGADTV DANLALGLPA DAREFGTSAQ ILYDLGVRSL  
 NLISNNPAKK VGLEGHGISI ASRTPIPVAV HEDNVRYLKT KRDRMGHDLP DVALWEQEHP  
 EN

>RXN02249 TRANSLATE of: rxn02249.seq check: 5182 from: 1 to: 477  
 MAKEGLPAVE LPDASGLKVA VVTARWNAEI CDRLHKHA VD AGRAAGATVS EYRVIGALEL  
 PVVVQELART HDAVVALGCV VRGGTPHFDY VCDSTVEGLT RIALDTSTPI GNGVLTNTTE  
 EQAVERSGGE GSVEDKGAEA MVAALDTALV LSQIRATEG

>RXN02263 TRANSLATE of: rxn02263.seq check: 627 from: 1 to: 378  
 MKIAVIGLGS TGSMALWHLS NIPGVEAIGF EQFGISHGYG AFTGESRLFR MAYHEGSTYV  
 PLLKRARALW SSLSEISGRE LFHNFGVLST GKEDEAPFQR LVESVERYEL PHERLTAAQM  
 RSVTQV

>RXN02272 TRANSLATE of: rxn02272.seq check: 3652 from: 1 to: 1245  
 VRITNAQVKN YAEALVDITIE GEKISSITPS SIRSEEDHRA DDYDAAGRLV APQFAEAHIH  
 LDYANTAGIP RENSSGTLFE AIEIWADRKT QGFHIKEDIK AKALQAARRA AEHGVGFIRT  
 HVDVTDPTFA GFEAIAELRD EVREWCDIQI VAFPPQNGIYA YEGGQKLISD AMSAGADVVG  
 GIPHLEPTRD DGVESVKWLF DLAEKHSAPI DIHTDEIDDP HSRFVEVLAA EAAKRDMAQ  
 TVVSHSVAMA YYSPGYMARL LPKLAASKVR FAVCPNENLH LQGLGFQGPV PRGVAPVKQL  
 TEWGIPVSFC QDSLNDPFYP MGDGDLRLIL DSGLHVSHML TASHLKNALS FITTNPAGNL  
 GLDNYDIAEN SPANLLVLDA SSEKEAVQRK ASVLLSIHRG KKVLSREPEQ VDWN I

>RXN02281 TRANSLATE of: rxn02281.seq check: 6251 from: 1 to: 1431  
 VQKDSVVRME ATTIDDAIAK LIDIYDTSTK LAKETLNNED YAAYADVVP KLTVDVLEWK  
 PIDRTEPFY VDRAGRYSAT LSKPRVIERY LREQRLTS NYPCKIYVSE SDIRIPPEYI  
 RGAPSATEAR RAGDVADIIP RPTLDEVHDA IIDGDWHAFN GPPLPLFHFG PQRFDIACAR  
 IEHYTGINVE HVQKYILFTN YAMHTTEFVH FAMSELTSED SRYVGLSLPN QVIDRETAT  
 SLGTETDLT SRFQMPRYDL ITEAGDGITI INIGVGPSNA KTITDCLAVL RPEAWVMIGH  
 CAGMDARMRI GDLILGNAYQ REDHILNTRI PLGNPIPAIP EIQALESASV DEIYGSDNSL  
 MRTGTVLSTD DRNWEWHTPE NLWNWLKGST AAAVDMESST LATNGYRFRI PYGTLLSVSD  
 LPLHAVPKLS AQAQAFYFNS KEAHVMCAVR AMEYLAVDPE RLRTKLRLRT LGEVPPFR

>RXN02345 TRANSLATE of: rxn02345.seq check: 1896 from: 1 to: 1197  
 VTSTGNQAHA PGMPIVAVIG DGQLARMMQT SAIELGQSLR VLAGAPDSSA AQVAADVVLG  
 DYTNIIDLRV AIEGADVMTF DHEHVPNEHL HQLIAEGVNV QPRPEALVNA QDKLVMRKRL  
 RELGAPVPPF AAIESVEDAV GFFEAVDGVV CLKARRGGYD GKGWVFPADV AELQSLVAEL  
 LDGGTPLMAE KKVALNRELS AMVARTPSGE TKAWPVVESV QKNGVCAEAI APAPELSAEL  
 QESTRGLAQK IATELGVTGV LAVELFETLD QNGQPEIFVN ELAMRSHTNG HWTQDGCVTS  
 QFEQHLRAVL DYPLGATDTL ADYTVMANVL GADTDPEMPM ATRMVEVGRK YPDAKIHLYG  
 KGHPRGRKIG HVNMVGSDEL KTRAEALACA YFLVNARWD

>RXN02350 TRANSLATE of: rxn02350.seq check: 8700 from: 1 to: 495  
 VGPLVGLIMG SDSDWDTVAP AAEVLAEFGI PFEVGVVSAH RTPEKMLNYA KTAHERGIKT  
 IIACAGGAH LPGMVAAATP LPVIGVPRAL KDLDGLDSSL SIVQMPGGVP VATVSIGGAK  
 NAGLLAVRIL GAGDPSLVTK MADYQENMAK EVEAKDEALK KRLLG

>RXN02355 TRANSLATE of: rxn02355.seq check: 2794 from: 1 to: 732  
 MSSISRKTGA SLAATLLAA IALAGCSSDS SSDSTDSTAS EGADSRGPIT FAMGKNDDTK  
 VIPIIDRWNE AHPDEQVTIN ELAGEADAQR ETLVQSLQAG NSDYDVMALD VIWTADFAAN  
 QWLAPLEGDL EVDTSGLLQS TVDSATYNGT LYALPQNTNG QLLFRNTEII PEAPANWADL  
 VESCTLAEEA GVDCLTTQLK QYEGLSVNTI GFIEGWGGSV LDDDGKRHR QHDGKAGLQA  
 LVDG

>RXN02382 TRANSLATE of: rxn02382.seq check: 5059 from: 1 to: 1296  
 MSSTTLTDDQ IRDNERTVL AKATAAKNIV PDI AVLGTGP KNAILRAAAD ELVARSAEII  
 EANASDIEAG RANGMEESMI DRLALDESRI EGIAGGLRQV AGLTDPVGEV LRGHVMENGI  
 QMKQVRVPLG VMGMVYEAP NVTVD AFGLA LKSGNVALLR GSSTAVHSNT KLVEILQDVL  
 ERFELPRETV QLLPCQTRGS VQDLITARGL VDVVIPRGGA GLINAVVTGA TVPTIETGTG

NCHFYIDAEA KLDQAIAMVI NGKTRRC SVC NATETALLDA ALSDSCLKAV VQALQEAGVT  
IHGRVAE LEA FGATDVVEAT ETDWDSEYLS FDIHAVVVDG VDGALAHIAK YSTKHTEAIA  
TQNIETAQRF ADRVDAAVM INASTAYTDG EQYGMGAEIG ISTQKLHARG PMALPELTST  
KWILQGTGQI RP

>RXN02384 TRANSLATE of: rxn02384.seq check: 8362 from: 1 to: 708  
VTRRLILLRH GQTEYNATSR MQGQLDTELS DLGFQQAASA ASVLVQKNIT HVFSSDLSRA  
FNTASAVAAL IDAEVRVDKR LRETHLGEWQ AKHTTEVDSE YPGARAQWRH DPQWAPPGGE  
SRVDVARRAR QVVDELMVSL DDWDEGTVLI VAHGGTINAL TSNLLDLAYD QYPMFSGLGN  
TCWAQLTARP RYYAGSENPE DDLKISSAVS NSPHFEGNNV ENAQWYLDGW NMGVTTQ

>RXN02503 TRANSLATE of: rxn02503.seq check: 7437 from: 1 to: 399  
MTLKIGTRGS KLATTQAGTI RDQLKHYGRD AELHIVTTPG DVNMSPVERI GVGVTQALR  
DVLHSGECDV AVHSMKDLPT ATDPRFHLVV PTRADSREAL IARDGLTLAE LPERRKGGNF  
RSSTHLPAQG NPP

>RXN02504 TRANSLATE of: rxn02504.seq check: 8 from: 1 to: 558  
VGTSAPRRIS QLKAIRPDLE ILPLRGNI DT GMGKVTSGEL DAVMLAYAGL TRVGMQDRAT  
EVFDADIIMP APAQGALAIE CRADDTETVR ALNMLMHADT FVSAVAERTV LNRLEAGCTA  
PVAAHATLDG YSGDTMTLTA GYVALDGSQ LVFSAEGDGA RPEELGELVA QQLIDAGAN  
LLGDRS

>RXN02648 TRANSLATE of: rxn02648.seq check: 6219 from: 1 to: 1203  
MSQNRIRTH VGSLPRTPEL LDANIKRSNG EIGEEFFQI LQSSVDDVIK RQVDLGIDIL  
NEGEYGHVTS GAVDFGAWN YSFTRLGGLT MTDTRD WASQ EAVRSTPGNI ELTSFSDRRD  
RALFSEAYED PVSGIFTGRA SVGNPEFTGP ITYIGQEETQ TDVDLLKKGM NAAGATDGFV  
AALSPGSAAR LTNKFYDTDE EVVAACADAL SQEYKIITDA GLTVQLDAPD LAEAWDQINP  
EPSVKDYLDW IGRIDAINS AVKGLPKEQT RLHICWGSWH GPHVTDIPFG DIIGEILRAE  
VGGFSFEGAS PRHAHEWRVW EENKLPESQV IYPGVVSHSI NAVEHPRLVA DRIVQFAKLV  
GPENVIAS TD CGLGGR LHSQ IAWAKLES LV EGARIASKEL F

>RXN02754 TRANSLATE of: rxn02754.seq check: 5967 from: 1 to: 1338  
VNTNPSEFSS NRSTALLTDK YELTMLQAAL ADGSAERPST FEVFSRRLPN ERRYGVVAGT  
ARVLKAIRDF VFTEEQLADL DFLDDRTLEY LRNYRFTGQV DGYREGIYF PQSPLLTVRG  
TFAECVILET VILSIMNADS AVASAAARMV TAADGRPIIE MGSRRTHEYS AVTASRAAYL  
AGFSTTSNLE AAYRYGIPAS GTSAAHWTL L HINDDGT PNE AAFAKQVES LGVDTLLVD  
TYDITQGVAT AIEVAGPDLG GVRIDSGDLG VLARKVRKQL DDLNAHNTKI VVSSDLDEFA  
IAGLRGEPVD VFGVGTSVVT GSGAPTAGLV YKIGEVAGHP VAKRSRNKES YGGGKAVRT  
HRKSGTAIEE IVYPFNAEAP DTGKLDLTL SL TIPLMRDGEI VPGLPTLEDS RAYLAKQLVS  
LPWEGLALSR DEPV LHTRFV GFPPAA

>RXN02758 TRANSLATE of: rxn02758.seq check: 5860 from: 1 to: 1299  
VTELIQNESQEIAELEAGQQVALREGYLP AVITVSGKDRPGVTA AFFRVLSANQVQVLDV  
EQSMFRGFLNLAA FVG IAPERVETVT TGLTDTLKVHGQSVVVELQETVQSSRPRSSHVVV  
VLGDPVDALDISRIGQTLADYDANIDTIRGISDYPVTGLELKVTPDVSPGGGEAMRKAL  
AALTSELNV DIAIERSGLLRSKRLVCFDCDSTLITGEVIEMLAAHAGKEAEVA AVTERA  
MRGELDFEESLRERVKALAGLDASVIDEVA AIELTPGARTTIRTLNRMGYQTAVVSGGF  
IQVLEGLAAEELELDYVRANTLEIVDGKLTGNVTGKIVDRAAKAEFLREFAADSG LKMYQT  
VAVGDGANDIDMLS AAGLGVA FNAKPALKEIADTSVNHPFLDEV LHIMGISRDEIDLADQ  
EDGTFHRVPLTNA

>RXN02772 TRANSLATE of: rxn02772.seq check: 845 from: 1 to: 1035  
MSLERNTQKS SMGVRMSAR LARSLTG NR V RTNPVLDPLL SIHRQFHPRADVQVLERAYD  
TAERLHDGVI RKSGDPYITH PLAVATIAAE IGM DTTTLVA ALLHDTVEDT DYSLDDLTRD  
FGEEVARLVD GVTKLDKVAL GAAAEAE TIR KMIVAMSQDP RVLVIKVADR LHNMRMTMRL  
PPEKQAKKAR QTLEVIAPLA HRLGMASVKW ELEDLSFAIL YPKKYEEIVR LVADAPS RD  
RYLKEIIDQV TGGLRENNIA AEVLGRPKHY WSIYQKMIVR GRDFDDIFDL VGIRILVDNV  
NNCVR RHRCR ALPVQCSAWP IQRLYFSPAL RCLPIPAHR DGTWR

>RXN02802 TRANSLATE of: rxn02802.seq check: 8099 from: 1 to: 1071  
VKNLDIARYR RQIMLGEIGQ QKQQSLF DAK VSVIGAGGLG SPALLYLAGA GVGHIHIIDD

DLVDLSNLHR QVIHTTAGVG TPKAESAREA MLALNPSVKV TVSVRRLDWS NALSELADSD  
 VILDGSDNFD TRHLASWAAA KLGIPHVWAS ILGFDAQLSV FHAGHGPIYE DLFTPPPPPG  
 SVPSCSQAGV LGPVVGVVMS AMAMEALKII TGVGTPLIGK LGGYSSLDGT WEYIPVVGSP  
 EVLERVLGSA GVSGISGGFG EVLDVPRVSA LVDGVSLIDV REPSEFSAYS IPGAHNTPLS  
 AIREGAIPPS VSAGKEVIVY CAAGVRSQA IAILESAGYT GMSSLDGGIE GWLDSL

>RXN02909 TRANSLATE of: rxn02909.seq check: 3255 from: 1 to: 486  
 MNRARIATIG VLPLALLLAS CGSDTVEMTD STWLVTNIYT DPDESNSISN LVISQPSLDF  
 GNSSLSGFTG CVPFTGRAEF FQNGEQSSVL DADYVTLSSL DFDKLPDDCQ GQELKVHNEL  
 VDLLPGSFEI SRTSGSEILL TSDVDELD RP AIRLVSWIAP TS

>RXN02912 TRANSLATE of: rxn02912.seq check: 8900 from: 1 to: 753  
 VTSPQLQNIL NNYWSGRAEA YHLNQTSER AQFERPIWEK VWSKALPIVS EEAVKVLDLG  
 CGAGYVTHLL SDCGYETIGV DGSEEMINQA TQENGLRRST GRATAIFQVG DAHDPEFREG  
 SFDAITSRVY LWTLLDPQAA INRWVSLKPK GGVACVDAA WYPKGIDAGT EVDSVDGSPA  
 FVETYTPPELL RNLPMSTTST GHNFALFHN AGLKEVTLTP IEGLAELDQR FGLSPGHST  
 PQFLFRGIKS S

>RXN02918 TRANSLATE of: rxn02918.seq check: 9454 from: 1 to: 441  
 MSEILETYWA PHFGKTEEAT ALVSYLAQAS GDPIEVHTLF GDLGLDGLSG NYTDTEIDGY  
 GDAFLLVAAL SVLMAENKAT GGVNLGELGG ADKSIRLHVE SKENTQINTA LKYFALSPED  
 HAAADRFD ED DLSELANLSE ELRGQLD

>RXN02965 TRANSLATE of: rxn02965.seq check: 5418 from: 1 to: 591  
 MEKFTTYTGV GVPLQRSNVD TDQIIPAVYL KRVTRTG FED GLFSNWRQND PNFVLNTDTY  
 KNGSVLVAGP DFGTGSSREH AVWALMDYGF RAVFSSRFAD IFRGNSGKAG MLTGIMEQSD  
 IELLWKLMEQ TPGLELTVNL EKQIVTAGDV VISFEVDPYI RWRLMEGLDD AGLTLRKLDE  
 IEDYEAKRPA FKPRNTA

>RXN02970 TRANSLATE of: rxn02970.seq check: 6259 from: 1 to: 1368  
 LALRGYTNFD GEFIEFGSVQ AKEEEKRAFD NDRAHVFSW SAQDKISPKV WAAAEGSTLY  
 DFDGNFIDM GSQVLNANLG HNNPRLVEAI QRQAARLTNI NPAFGNDVRS DVAAKIVSMA  
 RGEFSHVFFT NGGADAIEHS IRMARLHTGR NKILSAYRSY HGATGSAMML TGEHRRRLGNP  
 TTDPIYHFW APFLHSSFF ATTQEEECER ALKHLEDVIA FEGAGMIAAI VLEPVVGSSG  
 IILPPAGYLN GVRELCNKHG ILFIADVMV GFGRGTGKLFA YEHAGDDFQP DMITFAKGVN  
 AGYAPLGGIV MTQSIRDFTG SEAYSGGLTY SGHPLAVAPA KAALEIYAEG EIIPRVARLG  
 AELIEPRLRE LAEENVAIAD VRGIGFFWAV EFNADATAMA AGAAEFKERG VWPMISGNRF  
 HIAPPLTTTD DELVALLDV EAAAQAVELT FAGALF

>RXN03003 TRANSLATE of: rxn03003.seq check: 6068 from: 1 to: 675  
 MTSRTPLVSV LPDFPWDSL AKAKAASHP DGIVNLSVGT PVDPVAPSIQ IALAEAGFS  
 GYPQTIGTPE LRRAIRGALE RRYNMTKLVD ASLLPVVGTK EAIALLPFAL GISGTVVIPE  
 IAYPTYEVAV VAAGCTVLRS DSLFKLGPQI PSMMFINSPS NPTGKVLGIP HLRKVVKWAQ  
 ENNVILAAD CYLGLGWDE NPPISILDPR VCDGDHTNLI AIHSL

>RXN03004 TRANSLATE of: rxn03004.seq check: 4340 from: 1 to: 480  
 VLLSDRDIRK SIDAGDLGIE PFDAELIQPS SVDVRMDRYF RVFNNSKYTH IDPKLNQDEL  
 TSLVEVEDGE GFVLHPGEFV LASTLEKFTL PAHLAAGRLG KSSLGRLGLL THSTAGFIDP  
 GFSGYITL EL SNVANLPITL WPGMKVGQLA LFQMSSPAET

>RXN03007 TRANSLATE of: rxn03007.seq check: 3470 from: 1 to: 369  
 MTSPATLKV L NAYLDNPTPT LEEAIEVFTP LTVGEYDDVH IAALLATIRT RGEQFADIAG  
 AAKAFLAAR PFPITGAGLL DSAGTGGDGA NTINITTGAS LIAASGGVKL VKHGNSRVSS  
 KSG

>RXN03058 TRANSLATE of: rxn03058.seq check: 2459 from: 1 to: 483  
 VSKLKGSRL LDVSGDHSF ADLAGRQVAH VDVVDPLINT TFEEFQPTQS YDAITFIASL  
 HHMNAEEGLN KAVRILNPGG KLLIVGLAKN KTASDWIISG LQAFLSRPIS LINREQQIYP  
 FPTKEPSESL HEIRQLTKQL LPHRRIRRG I HFRYLLEWTK P

>RXN03063 TRANSLATE of: rxn03063.seq check: 3919 from: 1 to: 1032  
VEDLSYRIPQ SRTVAEQVPG PKSKALDERR QAAVARALAP GLPGYVVDAD GGILADADGN  
RFIDLASGIA VTTVGGSNAA VAKAVGAAAA RFTHTCFMVS PYETYVAMAE RLNALTPGDH  
DKKSALFNSG AEAVENAVKV ARAYTGKGAV VVFDNAYHGR TNLTAMAMTAK NRPYKSGFGP  
LAADVYRAPM SYPLRDGLSG PEAAERAISV IESQVGAENL ACVVIEPIQG EGGFIVPAPG  
FLAAISTWCR ENDVVFIAD E IQSGFLRTGD WFASDAEGVI PDVITTAKGI AGGMPLSAVT  
GRAEIMDAPG PGALGGTYGG NPVACAAALA AIEVMEQADL KTRA

>RXN03074 TRANSLATE of: rxn03074.seq check: 6105 from: 1 to: 498  
MTQSAPEFIA TADLVDIIGD NAQSCDTQFQ NLGGATEFHG IITTVKCFQD NALLKSILSE  
DNPGGVLVID GDASVHTALV GDIIAGLGKD HGWSGVIVNG AIRDSAVIGT MTFGCKALGT  
NPRKSTKTGS GERDVVVSIG GIDFIPGHYV YADSDGIIVT EAPIKQ

>RXN03105 TRANSLATE of: rxn03105.seq check: 7399 from: 1 to: 435  
LILPVQEGIS YFPTPLHLNH IGGSRLSAHV EDEDLRLDRD AVSEFGRKTH ELFPGVNPEP  
NRFVHYDTY TADKSPIIDA VDNVIVLTGG SGHAFKLSPA YGELAAQRAV GNTSPLYSED  
FRIASHEPIK ERCTYRKLTF LSARF

>RXN03114 TRANSLATE of: rxn03114.seq check: 9278 from: 1 to: 552  
TPGHFVALAR EIAGAVRREL TVGLDAGDGP ILRQSFDVGF LLVDASFHIH INGVSTGQSV  
APDDVVEVVR GLADASELSV ESVAELCTPV APVSLSEAQG NPAPIGWLEH DGVVSLGAGI  
PGGRVEARLA RFIAVIEAET TITPWNLSII HDLYEGVAEQ VVKVLAPMGL VFDANSPLLE  
SPAL

>RXN03137 TRANSLATE of: rxn03137.seq check: 1609 from: 1 to: 102  
LELNKAAAYMF EYSFDDITVS GYDPHPLIRG KVAV

>RXN03171 TRANSLATE of: rxn03171.seq check: 5756 from: 1 to: 513  
MDITIVNHPL VASRLTLLRD ERSDNAAFRA AANDLGAMLI YEASRDLEVE HFDTKTPVAM  
AEGTRLKQPP IIVPIIRAGL GMIDPALSMI PDAQVGFIGL ARDEETHEPV PYLEALPQDL  
SNQPVFLVDP MLATGGSLLH AIRLLADRGTA TDITAICMVS AQPQVDALAE S

>RXN03176 TRANSLATE of: rxn03176.seq check: 4586 from: 1 to: 861  
ELADYIPELK SADPNPLAVA LCTVNGHIYS AGDDDIEFTM QSISKPFAYA LALQECGFDE  
VSASVALEPS GEAFNELSLD GENRPMNPMI NAGAIAINQL INGSdstVED RVEKIRHYFS  
ELAGRELTID RVLAESLAG ADRNLSIAHM LRNYGVIEDE AHDAVLSYTL QCAIKVTRD  
LAVMTATLAA GGTHPITGKK LLDARVCRLT LSVMASAGMY DEAGQWLSTV GIPAKSGVAG  
GLIGILPGQL GIATFSPRLN PKGNSVRGVK IFKQLSDDMG LHLMSTE

>RXS00116 TRANSLATE of: RXS00116.seq check: 3330 from: 1 to: 1161  
MSNDFVVSRLRPFGETIFATMTQRAVEAGAINLGQGFPEDEGPRRMLEIASEQILGGNNQYSAGRGDAS  
LRAAVARDHLERFDLEYNPDSEVLITVGATEAITATVLGLVEPGDEVIVLEPPYDAYAAIALAGATRV  
AVPLQEVENSWDWDVDKLHAAVTKKTRMIIVNSPHNPTGSVFSKKALKQLAGVARAYDLLVLSDEVYEH  
LVFDDQKHVSVAKLPGMWDRVTVTVSSAAKTFNVTGWKTGWALAPEPLLEAVLKAQFMSYVGATPFQPA  
VAHAIEHEQKWVSKMSKGLELKRDI LRALDKAGLKTTHDSMGTYFIVADIGDRDGAEFCELFELIEKVGVA  
AIPVQAFVDHPKKWSSKVRFAFCKKEETLREAAERLKGIIKL

>RXS00147 TRANSLATE of: RXS00147.seq check: 7603 from: 1 to: 1179  
VSKDTTTYQGVTEIGSVPAYLVVLADGRTFTGFGGAIGTTLGEAVFTTAMTGYQETMTDPSYHRQIVVA  
TAPQIGNTGWNDEDNESRDGKIWVAGLVIRDLAARVSNWRATTSLQQEMAGQIGVIGGIDTRALVRHL  
RNEGSIAAGIFSGADAQRPEELVEIVKNQPMGTANLSVEVSADETYVIEAEGERHTVVAYDLGIKQ  
NTPRRFSARGVRTVIVPAETPFEDIKQYNPSGVFISNGPGDPAAADVMVDIVREVLEADIPFFGICFGN  
QILGRAFGMETYKLFKFGHRGINVPVKNHITGKIDITAQNHGFALKGEAQEFETDFGTAVTHTCLNDG  
VVEGIALKSGRAYSVQYHPEAAAGPNDASPLFDQFVELMDADAQKKGA

>RXS00349 TRANSLATE of: RXS00349.seq check: 102 from: 1 to: 1467  
MLSFATLRGRISTVDAKAAPPPSPLAPIDLT DHSQVAGVMNLAARIGDILLSSGTSNSDTKVQVRAVT  
SAYGLYYTHVDITLNTITIFTNIGVERKMPVNVFHVVGKLDTNFSKLSEVDRILIRSIQAGATPPEVAEK  
ILDELEQSPASYGFPVALLGWAMMGAVAVLLGGGWQVSLIAFITAFITIIATTSFLGKKGLPTFFQNVV  
GGFIATLPASIAYSALQFGLKPSQIIASGIVVLLAGLTLVQSLQDGITGAPVTASARFFETLLFTG

GIVAGVGLGIQLSEILHVMLPAMESAAAPNYSSTFARI IAGGVTA AAFVGCYAEWSSVIIAGLTALMG  
SAFY YLFVVYLGPVSAAAIAATAVGFTGGLLARRFLIPPLIVAIAGITPMLPGLAIYRGM YATLNDQTL  
MGFTNIAVALATASSLAAGVVLGEWIARRLRPPRFNPNYRAFTKANEF SFQEEAEQNQRRQRKRPKTNQ  
RFGNKR

>RXS00389 TRANSLATE of: RXS00389.seq check: 9029 from: 1 to: 1560  
MITATALHGCSLIDGEWVAGKNGEITGFDPRTNASLNPSYSLANSAQLRAATTS AKRAFESYRLTTP EV  
RADFLDSIADNIDALSGEIVQASLETGLGTTRLTGEVARTSNQLRLFAETVRSGQFHRVRIERGPRID  
LRQRQVPLGPVAVFGASNFPVAFSTAGGDTASALAAGCPVVFKAHNAHPGTAELVGQAVRGAVEKHEFD  
AGVFNLVYGRGVEIGQELAADPNITAIGFTGSRQGGLALSQTAFSRPVPVPVFAEMSATNPVFPFGAL  
ADLDASSSLAEAFSTASVTGSSGQLCTKPGLVFI PRGVVGDAFVALVAAKF KETTGTMTLQGIAQAWQR  
GVDNLAAQPSVKILAQGT PGDGENAPGPVVFESDVQALLNNVVLQEEI FGAASLVVRYDSPDQLHQVAN  
SLEGQLTATI HASQDDFQEVSKLIPLLEDLAGRVLYGGWPTGVEVGHTVIHGGPYPATSN AQSTS SVGTL  
AIERFMRPVS YQTFPAELLDPDPVSEANKWAVPREIDR

>RXS00391 TRANSLATE of: RXS00391.seq check: 5340 from: 1 to: 720  
LLRDSQRVGLAIDPSIALVMATSGSTGTPKGAQLTPLNLVSSADATHQFLGGEGQWLLAMPAHHIAGMQ  
VLLRSIAGVEPLAIDLSTGFHIDAFAGAAAE LKNTGDRVYTS LTPMQLLKAMDSLQGIEALKLFDVIL  
VGGAALSKQARISAEQLDINIVTTYGSSETSGGCYVDGKPIPGAKVRISDERIELGGPMIAQGYRNAPE  
HPDFANEGWFTTSDSGELHDGILT VTGRVDTRH

>RXS00393 TRANSLATE of: RXS00393.seq check: 4530 from: 1 to: 894  
MSHTEPQPN SVTLSDWIQGARPRTWANAFAPVIAGSGVAAFHDG FVWWKALLALVVAWALIIGVNYAND  
YSDGIRGTD EDRGTGPLRLTGSGLAEPKKVKA AAFISFGIAGVAGTALSLLSAWWLILIGILCVLGAWFY  
TGGKNPYGYRGLGEIAVFIFFGLVAVMGTQFTQTG SVSWAGLAAVGVGMSAGVNLANNIRD IPTDSK  
TGKITLAVRLGDAGARKLFLALISTP FIMSICLAFVAWPALIAIIVFPLALKAAGPIRNNATGKD LIPV  
IGSTGRAMALWAVLTGLALAFS

>RXS00405 TRANSLATE of: RXS00405.seq check: 4870 from: 1 to: 513  
MPKYDNSNADQWGFETR SIHAGQSVD AQTSA RNLP IYQSTAFVFD SAEHAKQRFAL EDLGPVYSRLTNP  
TVEALENRIASLEGGVHVAFAFSSGQAATTNAILNLAGAGDHIVTSP RLYGGTETLFLITLNLRLGIDVSF  
VENPDDPESWQA AVQPNTKAFFGETFANPQADV

>RXS00419 TRANSLATE of: RXS00419.seq check: 8218 from: 1 to: 759  
MLNAVKGAKQNILLGGTSEIGISIVSRFLKQGP SHVTLAARKDSPRVDA AVAEIKAAGAASVAVVDFDA  
LDTESHPAAIDAAFENG DVDVAIVAFGILGDNEAQWRDQALAVEATTVNYTAGVSVGVLLGQKFEQQGH  
GTIVALSSVAGQVRVRSNFVYGS AKAGFDG FYTQLGEALRGSGANVLVVRPGQVVRTKMSADGGEAPLTV  
NREDVADAVYDAVVNKKDIIFVHPLFQYVSFAFQFIPRAIFRKLPF

>RXS00446 TRANSLATE of: RXS00446.seq check: 3948 from: 1 to: 864  
MGAVELREALAEHLEVEFDQVT VGCSSALCQQLVQATCAQGDEVIFP WRSFEAYPIFAQVAGATPVAI  
PLTADQNHDLDAMAAAITDKTRLIFICNPNNPSGTTITQAQFDNFM EKVPNDVVVGLDEAYFEFN RADD  
TPVATEEIH RHDNVI GLRTFSKAYGLAGLRVGYAFGNAEIIAAMNKVAIPFAVNSAAQAAALASLNSAD  
ELMERVEETVEKRD AVVSALGAAPTQANFVWLPGEAAELAAKLAEHGIVIRAFPEGARISVTNAEETD  
KLLRAWEAINAG

>RXS00618 TRANSLATE of: RXS00618.seq check: 4181 from: 1 to: 1107  
MQMLDRVHRRRREGKDTLMFCAGQPSTGAPEAVIEEAEIALRSGPLGYTEVIGDREFRERIADWHSATY  
DVDTNPDNVIVTTGSSGGFVASFIATLDHG DYVAMPTPGYPARNILES LGAKVLNLRCTAETRFQPTA  
QMLEELPHKPKAVIVTSPGNPTGTIIDPEELERIAKWCDND AVLISDEDYHGMSFGRPLATAHQFSKN  
AIVVGTLSKYFSMTGWRVGVII VPDDELVTPIENLQASLSLCPAIGQAAGRAAFTLEAGAE LDAHVEAY  
REAREVFVDKLPEIGLGT FADPDGGLYLWVDVSAYTDDSEEWALRLLDEAGVAVAPGVDFDPEEGHKWI  
RLSLCASKEDTIEGVRKIGEFIKK

>RXS00838 TRANSLATE of: RXS00838.seq check: 1249 from: 1 to: 900  
MKIAIVGAGAVGGYFGALLQESGADITMVARGRTLEALKSKGLHINDARGER YVPIPAVASVQELK DAD  
VVMIA TKALSRSLDLAELLGGIPANSVVAITQNSIESADLAAKSIGADRVWPGVVRGFFVHEGPASVSY  
KGGPLSYTFGDSGELSRQFASTLEQAGIDGVLHPDILVDVWEKAMFVEVFGGLGAFVEKQLGTLRTHFR  
ASLEALMEEVAEVARAAGVALPSDAVERTMNFADRM PENSTSSMQRDLAAGVASELEAQTGAIVRAAHK  
VGVKTPLHDLIYAGLKLKEEENSL



>RXS00870 TRANSLATE of: RXS00870.seq check: 4548 from: 1 to: 1512  
 MSEPQTISHWIDGAISPSTSGKTAPVYNPATGQVTANVALASQEEIDATIASATKAAKTWGNLSIAKRQ  
 AVLNFNRELLNARKGELAEIITAHEGKVLS DAMGEILRGQEVVELATGFPHLLKGAFNENVSTGIDVYS  
 LKQPLGVVGIIISPFNFAMVPMWFFPIAIAAGNAVILKPSEKDP SAALWMAQIWKEAGLPDGVFNVLQG  
 DKLAVDGLLNSPDVSAISFVGSTPIAKYIYETSAKNGKRVQALGGAKNHMLVLPDADLDLVADQAINAG  
 YGAAGERCMASVSVLAIESVADELIEKIKERIDTLRIGNGAGDEQGEPLGLITDVHRDKVASVYDIA  
 EADGAKIIVDGRNCAVDGHEEGFFFGPTLIDDIPLTFRAYTEEIFGPVLSVVRVASFDEAIELINSGEF  
 GNGTAIFTNDGGAARRFQHEIEVGMIGINVPIPVPAVYHSFGGWKNSLFGDAKAYGTQGDFDFFTREKAI  
 TSRWLDPATHGGINLGFPQND

>RXS00905 TRANSLATE of: RXS00905.seq check: 8965 from: 1 to: 801  
 MTQFENAQVLKENIENQREQIFTQLKEIVSFNSVHSDPNLLEDYAGAKEWVKETLTNAGLTVSEFAAED  
 GTTNFIGTRKGSEGAPKVLLYSHFDVVPSPGLDLWDTPNFELTERDAGHGTRWYGRGAADCKGNLVMHL  
 AALRAVEASGDTTLNLTYVVEGSEEMGGGALSALIKDKPELFDADVILIADSGNASVGTPTLTTLTTLRG  
 GQVTVTVDTLEGAVHSGQNGGAAPDAVAALVRVLDTLRDEHGRTVIDGCQHHRKLEGRAL

>RXS00906 TRANSLATE of: RXS00906.seq check: 3597 from: 1 to: 504  
 MNTDAPLSTAVNTTANWKGEYPDPETFRSDAGILDGVDIMGDGDNPASMLWSRPAISITGFTSTPVAEA  
 LNAVPTASAKLNL RVPAGLEANDVAEKLKQHLINHTPWGAKITVEIDINQPFSTDITGPAMSTLASC  
 LSAAYEGKDLVTEGSGGSIPLCTELIEVNP

>RXS00907 TRANSLATE of: RXS00907.seq check: 9200 from: 1 to: 123  
 LALYGVEEPLTVIHSANESVDPNEIRDIATAEALFLLNYTK

>RXS00998 TRANSLATE of: RXS00998.seq check: 1808 from: 1 to: 462  
 MTSRDDQPQDLLSLAELAATRALTTDELEALNNANYGLDRNLGLRYTTIEPGRVVSSELHVASKHLQVVG  
 LVNGGVYAAIAESTGSVASMISAPGKMVVGINNNTDFISAVSSGVIVAEATPIQLGGRTHLWQIECTHR  
 GEVARTTLRTMVLNK

>RXS01105 TRANSLATE of: RXS01105.seq check: 6552 from: 1 to: 1098  
 MTKITLSDLPLREELRGEHAYGAPQLNVDIRLNTNENPYPPSEALVADLVATVDKIA TELNRYPERDAV  
 ELRDELAAYITKQTVAVTRDNLWANGSNEILQQLQAFGGPGRTALGFQPSYSMHPILAKGTHTEFI  
 AVSRGADFRIDMDVALEEIRAKQPDIVFVTTNNPTGDVTSLLDDVERIINVAPGIVIVDEAYAEFSPSP  
 SATTLLEKYPTKLVSRTMSKAFDFAGGRLGYFVANPAFIDAVMLVRLPYHLSALSQAAAIVALRHSAD  
 TLGTVEKLSVERVRVAARLEELGYAVVPSES NFVFFGDFSDQHAAWQAFLDRGVLIRDVGIAGHLRTTI  
 GVPEENDAFDLAAAEI IKLNL

>RXS01130 TRANSLATE of: RXS01130.seq check: 121 from: 1 to: 603  
 MDLARKLGLLAGKLVDAAAPVSIEVEARGELSSSEQVNALGLSAVRGLFSGII EESVTFVNAPRIAEERGL  
 DISVKTNSVSVTHRSVLQVKVITGSGASATVVGALTGLERVEKITRINGRGLDLRAEGLNLFQYTDAP  
 GALGTVGTKLGAAGINIEAAALTQAEKGDGAVLILRVESAVSEELEAEINAELGATS FQVDLD

>RXS01145 TRANSLATE of: RXS01145.seq check: 748 from: 1 to: 1014  
 MAIELLYDADADLSLIQGRKVAIVGYGSQGHASQNL RDSGVEVVIGLREGSKSAEKAKEAGFEVKTTA  
 EAAAWADVIMLLAPDTSQAEIFTNDIEPNLNAGDALLFGHGLNIHFDLIKPADDIIVGMVAPKGPGLV  
 RRQFVDGKGVPCLIAVDQDPTGTAQALTSYAAAIGGARAGVIPTTFEAETVTDLFGEQAVLCGGTEEL  
 VKVGFEVLTEAGYEP EMAYFEVLHELKLIVDLMFEGGISNMNYSVSDTA EFGGYLSGPRVIDADTKSRM  
 KDILTDIQDGTFTKRLIANVENGNTELEGLRASYN NHPIETGAKLRDLMSVWKVDARAETA

>RXS01183 TRANSLATE of: RXS01183.seq check: 908 from: 1 to: 303  
 MAFSVEMPELGESVTEGTITQWLKSVGDTVEVDEPLLEVSTDKVDTEIPSPVAGVILEIKA EEDDTVDV  
 GGVI AIGDADETPANEAPADEAPAPAE EEEEP

>RXS01260 TRANSLATE of: RXS01260.seq check: 3260 from: 1 to: 1182  
 VTFNYEDAHKRSRGVSDKIVGGVHYLMKKNKII EIHGLGNFKDAKTLEVT DGKDAGKTITFDDCIIATG  
 SVVNTLRGVDFSENVVSFEEQILNPVAPKKMVI VIGAGAIGMEFAYVLGNYGVDVTVIEFMDRVLPNEDA  
 EVSKVIAKAYKKMGVKLLPGHATTAVRDNGDFVEVDYQKKGSDKTETLTVD RVMVSVGFRPRVEGFGL  
 NTGVKLTERGAIEIDDMRTNVDGIYAIGDVTAKLQLAHVAEAQGI VAAETIAGAETQTLGDYMMMPRA  
 TFCNPQVSSFGYTEEQAKEKWP DREIKVASFPFSANGKAVGLAETDGF AKIVADA EFGELLGAHLVGAN  
 ASELINELVLAQNWDLTTEEISRSVHIHPTLSEAVKEAAHG ISGHMINF

>RXS01261 TRANSLATE of: RXS01261.seq check: 5376 from: 1 to: 171  
VTEHYDVVVLGAGPGGYVSAIRAAQLGKKVAVIEKQYWGGVCLNVGCIPSKVSDQKR

>RXS01807 TRANSLATE of: RXS01807.seq check: 712 from: 1 to: 792  
MPSAGEEILEQRAQLEFDQRRADVMMIGSQVYVGSVGLSAAIPVMHNEGLRVVAVPTVVLSSMPRYASS  
HRQPMSDQWLADALQDLVDLGIIDEVSTISTGYFTSASQVRVVAWLQKIRETHPHVRIVVDFPIMGDS  
VGIYVADEIATAICQDLCLATGIIIPNAFELSHMVGSGDPRSLGPFGEWIIITSATETVGTTVTRIVT  
RDSVQEIASATVDTTAKGAGDVYAAALIAALHKDFSLIDAASHASNTVCAGLQTKAL

>RXS02001 TRANSLATE of: RXS02001.seq check: 4280 from: 1 to: 1158  
MPVINSIASFSDEMTRWRRHLHQNPEISFDCVETAFAEQLRSFGVDEIHTGIAKTGIIALIHGREAG  
PVVGLRADMDALPLTEITGVYASTTPGKMHACGHDGHTTMLLGAACKYLAETRNFAGTVALIFQPAEEN  
GGGAGVMVDEGLDRFAIAEVYALHNQPLPLGHFMTTAGPIMAAVDTFDINITGRGGHGAKPHQTRDP  
IVAAVGIVQAFQITIVSRNHNPNVEDLVVSVTQIHTGSADNIIPETAYINGTVRTFNKDVQAMVITRMEEI  
VAGQAAAYGVEATLTYNRNYPATINDAAKAAIAAEVAGEVGLGVNPNNGSRGMGAEDFSYFLEKRPAYL  
FVGNGDSAGLHNPAYNFNDEAAPYGASFLARMAERPLPLKG

>RXS02021 TRANSLATE of: RXS02021.seq check: 9962 from: 1 to: 948  
MSENIRGAQAVGIANIAMDGITLDTWPEPQIFNPDQWAERYPLEVGTTRLGANELTPRMLQLVKLDQD  
RLVEQVAVRTVIPDLSQPPVDAHDVYLRHLHLSHRLVRPHEMHMQNTLELLSDVWVTNKGPCLPENFEW  
VRGALRSRGLIHVYCVDRLLPRMVDYVVPVGVRISEAERVRLGAYLAPGTSVLREGFVSFNSGTLGAACKV  
EGRLLSSGVVIGEGSEIGLSSTIQSPRDEQRRRLPLSIGQNCNFGVSSGIIGVSLGDNCDIGNNIVLDGD  
TPIWFAADEELRTIDSIEGQANWSIKRESGFHEPVARLKA

>RXS02101 TRANSLATE of: RXS02101.seq check: 3861 from: 1 to: 1263  
MSRISELLNNHGVDSLWQEAAYQDFHEHPELSGFESETADRIQKYLERFDCEVIPNVGGYGILAVFRNG  
STDPGAPVALMRADFDGLPVKEITGVPFSTRMRPHDGANVHVMHACGHVHVVTALLGACAILDERRDA  
WEGTFIALFQPSSENSQGANKMVAGGLVDLIPRPDVCFGQHVVPGAAGTVMSMPGGALAACDSIEIRIQ  
GRSAHGSMPHNSIDPTYAAMIVVRLQGIVGREVSPEDFAVISVGTLSGNTNNTIPASARLVNCRFY  
NDKVHKHVYRAIERVVRGECLASGIEEPEVIEYFAHGDLTNNTPVVFDTVRPVFDDVFGEDSIDAYRWT  
ASEDFPSIPKAFNSPYLYWTIGVTPRDQWTEAVERDRVASDVPANHMGDFLPDYAPTMSAATRAAAAAAL  
LTYLGTN

>RXS02157 TRANSLATE of: RXS02157.seq check: 5341 from: 1 to: 1173  
MSTLETWPQVIINTYGTTPVELVSGKGATVTDDQGNVYIDLLAGIAVNALGHAHPAIEAVTNQIGQLG  
HVSNFLASRPVVEVAEELIKRFLSDDATLAAQTRVFFCNSGAEEANAAFKIARLTGRSRILAAVHGFHG  
RTMGSLALTGQPDKREAFLLPMPSGVEFYPGDTDYLRKMVETNPTDVAAIFLEPIQGETGVVPAPEGFL  
KAVRELCDIEYGILMITDEVQTVGRTGDFFAHQHDGVVPDVVTMAKGLGGGLPIGACLATGRAAELMTP  
GKHGTTFFGNPVACAAKAVLSVVDADFCAEVARKGELFKELLAKVDGVVDVRGRGLMLGVVLERDVAK  
QAVLDGFKHGVLNAPADNIIRLTPLVITDEEIADAVKAIETIA

>RXS02197 TRANSLATE of: RXS02197.seq check: 490 from: 1 to: 528  
AERMRFSPRQQRGRFLCIADFIRPREQAVKDQVDMVPFQLVTMGNPIADFANELFAANEYREYLEVH  
GIGVQLTEALAEYWHRSRSELKLNDDGGSVADFPEDKTKFFDLDIRGARFSFGYGSCPDLEDRAKLVE  
LLEPGRIGVELSEELQLHPEQSTDAFVLYHPEAKYFNV

>RXS02234 TRANSLATE of: RXS02234.seq check: 4131 from: 1 to: 3339  
MPKRSIDINHLVIGSGPIVIGQACEFDYSGTQACRVLKEEGLRVTLINSNPATIMTDPEDADHTYVEPI  
EPEYIDKIFAKEIEQGHPIDAVLATLGGQTALNAIQLDRLGILEKYGVELIGADIDAERGEDRQKFK  
DIVTTIGGESARSRVCHNMEEVHETVAELGLPVVVRPSFTMGGLGSGLAYNTEDLERIAGGGLAASPEA  
NVLIEESILGWKEFELELMRDTADNVVVICSIENVDALGVHTGDSVTVPALTLTDREFQKMRDQGIAI  
IREVGVDTGGCNIQFAINPVDGRIITIEMNPRVSRSSALASKATGFPIAKMAAKLAIGYTLDEITNDIT  
GETPAAFEPTIDYVVVKAPRFAFEKFGADDTLTMTKSVGEVMSLGRNYIAALNKALRSLETQGGFW  
TKPDEFFAGERATDKAAVLEDLKRPTTEGRLYDVELAMRLGASVEELYEASSIDPWFLAELEALVQFRQK  
LVDAPFLNEDLLREAKFMGLSDLQIAALRPEFAGEDGVRTLRLSLGIRPVFKTVDTCAAEEFAKTPYHY  
SAYELDPAAESEVAPQTEREKVLILGSGPNRIGQIEFDYSCVHALELSRVGYETVMVNCNPETVSTD  
YDTADRLYFEPLTFEDVMEVYHAEAQSGTVAGVIVQLGGQTPLGLADRLKAGVPVIGTSPEAIDMAED  
RGEFGALLNREQLPAPAFGTATSFEEARTVADEISYPVLVRPSYVLGGRGMEIVYDEASLEDYINRATE  
LSSDHPVLVDRLDIAEIDVDALCDGDEVYLAGVMEHIEEAGIHSAGSACALPPMTLGAQDIEKVREA  
TKKLALGIGVQGLMNVQYALKDDILYVIEANPRASRTVPFVSKATGVNLAKAASRIAVGATIKDLQDEG  
MIPTEYDGGSLPLDAPIAVKEAVLPFNRFRPDGKTLDTLLSPEMKSTGEVMGLANNFGAAYAKAEAGA

FGALPTEGTVFVTVANRDKRTLILPIQRLALMGYKILATEGTAGMLRRNGIECEVVLKASDIREGVEGK  
SIVDRIREGEVDLILNTPAGSAGARHDGYDIRAAAVTVGVPLITTVQGVTA AVQIEALREGVVSVAL  
QELDHAVKA

>RXS02262 TRANSLATE of: RXS02262.seq check: 7976 from: 1 to: 1146  
MTATYTTTETAINFLFLSEPDMAAGVKDVAQCVDVMEETLVLLAQGDYK MAGLNSNSHGAMITFPENPE  
FEGMPKDGPDRRFMAMPAYLGGRFKNTGVKWYGSNAENKASGLPRSIHTFVLNDTVTGAPKAIMSANLL  
SAYRTGAVPGVGKHLAVADATTLAVVGPGVMAKTITEACIAERPGITTIIKIKGRSERGINAFATWALE  
KFPEIEVVAVGSEEDVVKDADIVIAATTTDAAGSSAFPYFKKEWLKPGALLLLPAAGRFDDAYLLDDAR  
LVVDYMGLEYEAWAEYGPQAYQLLGIPGTHWYDLALQGLDLAKISQIGDICSGLKLPGRTNDEEIIILYS  
VGGMPVEDVAWATQVYENALEKGVGTTLNLWESPALA

>RXS02299 TRANSLATE of: RXS02299.seq check: 8495 from: 1 to: 408  
MLRTILGSKIHRATVTQADLDYVGSVTIDADLVHAAGLIEGEKVAIVDITNGARLETYVIVGDAGTGNI  
CINGAAHLINPGDLVIIMSILQATDAEAKAYEPKIVHVDADNRIVALGNDLAEALPGSGLLTSRSI

>RXS02315 TRANSLATE of: RXS02315.seq check: 920 from: 1 to: 1629  
MSSTPAQDLARAVIDSLAPHVTDVVLCPGSRNSPLSLELLARQDLRVHVRIDERSASFLALS LARTQAR  
PVAVVMTSGTAVANCLPAVAEAAHAHIPLIVLSADRPAHLVGTGASQTINQGTGIFGDLAPTGVITELDQ  
VAQIAESLAQGASQIPRHFNLALDVPLVAPELPELHGEAVGASWTHRWINHGEVTVDLGEHTLVIAGDE  
AWEVEGLEDVPTIAEPTAPKPYNPVHPLAAEILLKEQVSAEGYVVNTRPDHVIIVVGHPTLHRGVKLMS  
DPGIKLTVLSRTDIITDPGRHADQVGSTVKVTGTQEKQWLKICSAASELAADGVRDVLNDQEFGFTGLH  
VAAAVADTLGTGDTLFAAASNSIRDLSLVGMPFDGVDTFSPRGVAGIDGSAQAIGTSLAVQSRHPDEI  
RAPRTVALLGDL SFLHDIGGLLIGPDEPRPENLTI VVSNDNGGGIFELLETGADGLRPNFERAFGTPHD  
ASIADLCAGYGIEHQVVDNLQDLIIALVDTTEVSGFTII EASTVRDTRRAQQQALMDTVH

>RXS02319 TRANSLATE of: RXS02319.seq check: 7220 from: 1 to: 957  
MSNYSTDNPFDPQTQWATVPGFEEFTDITYHRHVGTTRADGIVRIAFDRPEVRNAFRPHTVDELYQALDH  
ARRTPDVG TILLTGNGPSEKDGGWAFCSGGDQIRGRSGYQYATEHARD DATADVFTVDIARTKVEGGR  
LHILEVQRLIRTMPKVVI AVVNGWAAGGGHSLHVCDLTIASRQEARFKQTDADVGSFDAGYGSAYLAK  
MVGQKNAREIFFLGRTYDAERMQQMGAVNIVADHGDLKEAIIQAAREINTKSPTGQRM LKFAFNLTDDG  
LMGQQVFAGEATRLAYMTDEAVEGKEAFLEKREPWNNEFPYYY

>RXS02550 TRANSLATE of: RXS02550.seq check: 5515 from: 1 to: 1311  
VTTDKRKTSKTTDTANKAVGADQAARPTRRTRRIFDQSEKMKDVLVEIRGPVAAEAERMELDGHNILK  
LNTGNPAVFGFDAPDVIMRDMIANLPTSQGYSTSKGII PARRAVVTRYEVVPGFPHFDVDDVFLNGVS  
ELITMTTQALLNDGDEVLI PAPDYPLWTAATSLAGGKPVHYLCDEEDDWNPSIEDIKSKISEKTKAIVV  
INPNNPTGAVYPRRVLEQIVEIAREHDLILADEIYDRILYDDAEHISLATLAPDLLCITYNGLSKAYR  
VAGYRAGWMVLTGPKQYARGFIEGLELLAGTRLCPNVPAQHAIQVALGGRQSIYDLTGEHGRLL EQRM  
AWTKLNEIPGVSCVKPMGALYAFPKLDPNVYIEHDDTQLMLDLLRAEKILMVQGTGFNWP HHDHFRVVT  
LPWASQLENAIERLGNFLSTYKQ

>RXS02556 TRANSLATE of: RXS02556.seq check: 1750 from: 1 to: 1158  
LIVSTQPI TDRSALSAEHAIEVIKATLPLVGGKINEITPVFYNMFAAHP ELIANTFN RGNQKQGDQQA  
LAASIATFATMLVTPDAPDPVQLLSRIGHKHVSLGITADQYDIVHEHLFAAIVEVLGAETVTAPVAEAW  
DAVYWIMANVLIGFENNLYASNDLEPGDVFREVTVTAKKQLSATVWEYTLAGELVAPEPGQYTSIGVVL  
DDGARQLRQYSLLGSDTEYRIAVEDNGEVSGFLRDRVSVGDKIEATIAAGDLVLNKDTPNVVLISQGI  
GSTPMVGMLAGMNP ERDVVVLHADQAESTYAQVEEVQGLVEKLPKAAFEIFYRDNDQWLEVAGRIPSGA  
SVYLCGGVEFLKNVREQIEALDEQPRDVNFELFAPNDWLIS

>RXS02560 TRANSLATE of: RXS02560.seq check: 4626 from: 1 to: 867  
MQGNSLNLADNSERKKPMPSPGELLAARYGQPATWTPPQWNETLDVIHQHRSVRRWLDKPVDDDTIRTI  
ISAAQSAGTSSNKQVISVIVVKDPELRKGLAGITRQMFPHLEQVPAVLIWLIDYSRISAVAAREDLPTG  
ALDYLDEAAWGFLDAGIAAQNAAIAAESLGLTLYLGSVRNDAEAVHKLGLPPEIVPVVGLEMGHADP  
PEPAGIKPPLPQEAIVHWDITYTEKNLELIDSYDRALDITYSRYGQHQLWSKQTAHRAASKSF SKTNRQF  
LRGVFERAGFGLR

>RXS02565 TRANSLATE of: RXS02565.seq check: 9394 from: 1 to: 1266  
VNDLTPDSGQEIRNAESLERFFEGTPNVKITKLEPHPGRTSIIIVTVPGSDPDAEPLTLLGHTDVVPVDL  
PKWTKDPFGAEISDQGIWGRGSVDMLFITATQAAVTRQVAREGGLRGTLT FVGVADEEARGGLGAKWLS  
EEHQNLFSWKNCLESSEGGSHLPVHDGSDAVVINVGEGKAAQRRIVHNGDAGHGSIPFDRDSAIVKIGEV

ARRIAAADLKVAKDDIWQGFVQAHFRDPETEQALLSGTSPEAYAEFGGLSRFAHAVSHLTIAQTVVRAG  
QAINVLP SHAYLELDIRTLPGQTN DYVDDTLRAALGDLADEVEIEHLISEEATVSPTDSRLYNTLEKVL  
GDFFPDAPVVP IISGGSDLRFGRRLGGVGYGFAVHARERTLAEAMGQLHSHDEALYLEDELTVRGYD  
SVVREFLG

>RXS02908 TRANSLATE of: RXS02908.seq check: 6002 from: 1 to: 261  
LKLHPEVLERAIAIDIKGVTAACVVGIPDPRLGQAIVAAYSGSISPSEVIEGLDDLPRWQLPKRLKHLES  
LPSIGPGKADRRRAIAKLF

>RXS02937 TRANSLATE of: RXS02937.seq check: 1915 from: 1 to: 402  
VISNGEGPVVALRGDIDALPMAERSGKEYAATGVTQVDNTTGQETPVAHTCGHDVHISSLLGAVQAFNS  
HRELWNGTLMVAFQPAEETAAGARMMADQDNAPGNHSPAFAPDMQPTLDRGVEALVVAASAWLVK

>RXS02970 TRANSLATE of: RXS02970.seq check: 6259 from: 1 to: 1368  
LALKGYTNFDGEFIEFGSVQAKEEEKRAFDNDRAHVHFSWSAQDKISPKVWAAEGSTLYDFDGNAFID  
MGSQVLVSANLGHNNPRLVEAIQRQAARLTNINPAFGNDVRSDDAAKIVSMARGEFSHVFFTTNGGADAIE  
HSIRMARLHTGRNKILSAYRSYHGATGSAMMLTGEHRRLLGNPTTDPDIYHFWAPFLHSSFFATTQEEE  
CERALKHLEDVIAFEGAGMIAAIVLEPVVGSSGIILPPAGYLNGVRELCNKHGILFIADDEVVMVGFGRGTG  
KLFAYEHAGDDFQPDMITFAKGVNAGYAPLGGIVMTQSIRDFTGSEAYSGGLTYSGHPLAVAPAKAALE  
IYAEGEIIIPVARLGAELIEPRLRELAENVAIADVRGIGFFWAVEFNADATAMAAGAAEFKERGVWPM  
ISGNRFHIAPPLTTTDELVALLDAVEAAAQAVELTFAGALF

>RXS03003 TRANSLATE of: RXS03003.seq check: 6068 from: 1 to: 675  
MTRSRTPLVSVLPDFPWSLASAKAKAASHPDGIVNLSVGTVPDVPAPSIQIALAEAGFSGYPTIGTP  
ELRAAIRGALERRYNMTKLVDASLLPVVGTKAIALLPFALGISGTVVIPEIAYPTYEVAVVAAGCTVL  
RSDSLFKLGPQIPSMMPINSNPTGKVLGIPHLRKVVKWAQENNVILAADECYLGGLGWDDENPPISIL  
DPRVCDGDHTNLIAIHS

>RXS03026 TRANSLATE of: RXS03026.seq check: 3330 from: 1 to: 267  
MPGKILLNPNLNLGKREPDIYGHDTLEDVVALATAEAAKHGLEVEALQSNHQGELIDALHNARGTH  
IGCVINPGGLTTLRWRFWML

>RXS03074 TRANSLATE of: RXS03074.seq check: 6105 from: 1 to: 498  
MTQSAPEFIATADLVDIIGDNAQSCDTQFQNLGGATEFHGIIITTVKCFQDNALLKSILSEDNPGGVLVI  
DGDASVHTALVGDIAGLGKDHGWSGVIVNGAIRDSAVIGTMTFGCKALGTNPRKSTKTGSGERDVVVS  
IGGIDFIPGHYVYADSDGIIIVTEAPIKQ

>RXS03112 TRANSLATE of: RXS03112.seq check: 9249 from: 1 to: 504  
VEIFGKTVGIVGFGHIGQLFAQRLAAFETTIVAYDPYANPARAAQLNVELVELDELMRSDFVTIHLPK  
TKETAGMFDHLLAKSKKGQIIINAARGGLVDEQALADAIESGHIRGAGFDVYSTEPCTDSPLFKLPQV  
VVTPHLGASTEAAQDRAGTDIADSVLKALA

>RXS03158 TRANSLATE of: RXS03158.seq check: 9521 from: 1 to: 564  
LHSTTKYIEGHSDDVVGGLVGTNDQEMDEELLFMQGGIGPIPSVFDAYLTARGLKTAVRMDRHCDAEK  
IAEFLDSRPEVSTVLYPGLKNHPGHEVAAKQMKRFGGMISVRFAGGEEAAKKFCTSTKLICLAESLGGV  
ESLLEHPATMTHQSAAGSQLEVPRDLVRISIGIEDIEDLLADVEQALNNL

>RXS03159 TRANSLATE of: RXS03159.seq check: 3925 from: 1 to: 738  
LSFDPNTQGFSTASIHAGYEPDDYYGSINTPIYASTTFAQNAPNELRKGYEYTRVGNPTIVALEQTVA  
LEKAYGRAFSGMAATDILFRIILKPGDHIVLGNDAYGTYRLIDTVFTAWGVEYTVVDTSVVEEVA  
AIKDN TKLIWVETPTNPALGITDIEAVAKLTEGTNAKLVDNTLASPYLQQPLKLGAAHASPCTPPPSTS  
KDTPTLLAALWVPTTRKWTNCCSCRAASDRSHQFSMHT

>RXS03183 TRANSLATE of: RXS03183.seq check: 124 from: 1 to: 417  
EAEATAGKFEVQPLVGKDGVGSTLGGYNNGINVSENKATARDFIEFIINEENQTFADNSFPPVLAS  
IYDESLEQYPYLPALKESLENAAPRPVSPFYPAISKAIQDNAYAALNGNVVDVQATTDMKAAIENAS  
S

>RXS03205 TRANSLATE of: RXS03205.seq check: 311 from: 2 to: 934  
DSGIPTQLVEGSWFEPVRGRTFDRIIANPPFVVGPPPEIGHVYRDSGMDLDGATALVVKEACAHLPNGGT  
AHLGAWVHSADQSQQRVAEWLPDNGYVAVVIERDAVSPAQYVGTWLSDESLLDRSPEAAARTTAWLN

HFEKAKVQGVGFGFIAIQRLEEDAEDEKSDILAESMTQYFEDPLGPEIEEYFTRTAWLREQTRDSILSS  
RFKVRPGVAREQISLADAEEGMGFSPTLRLTRTDGPRWSDHVDHVASIVAGLNPHGLPFEEILEMYA  
MAQGIEGESLHNGAIAALVDLIRHGLVLPADLLDS

>RXS03223 TRANSLATE of: RXS03223.seq check: 402 from: 2 to: 1207  
PEPVRIAIAEALGLMCAEEVQASRALPGFAQAAIDGYAVRAVDVGGEKSFSQQLPVAPPEKSLPVVGEV  
AAGSQQLRLQPKQAVMVHTGAPLPLMADAVLPMASDRGRKRVTAQRPVRSGEFVRKEGDDIQPGDIA  
VSAGAVLGPAGIQLLAAGVGRSKVLVYPRPRMSVISVGAELVDIDRQPGLGQVYDVNSYSLAAAGREAGA  
DVYRYGIAAGEPRRIKEIIESQMLRSEIIVITGAVGGAGSAGVRQVLNELGDDITERVAMHPGSGVQGGF  
LLGENKIPCFLLPSNPVASLVI FETFVRPVVRMSLGKSNAARRVVRARALNHVSVAGRKGFIRSRLMR  
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>RXC00128 TRANSLATE of: RXC00128.seq check: 1749 from: 1 to: 1704  
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YPTQQYEAAYLTEGTRSTWNPAASTRILDRIDLNTLPGSTNAERTIAIRGTQVGTLLSGGVYQPEN  
EFEAEITMRREDGEWRIDALPDGILLERNDLRNHYTPHDVYFFDPSGQVLVGDRLWLFNESQSMSTVLM  
ALLVNGPSPAISPGVVNQLSTDAFVGFNDGEYQFTGLGNLDDDLARLFAAQAVWTLAHADVAGPYTLV  
ADGAPLLSEFPTLTDDLAEYNPEAYTNTVSTLQDQSLSRVSSGNVSPQLQIWSGDDIDSAIASS  
ANVVAVRHENNEAVLTVGSMEGVTSALRSETITRPTFEYASSGLWAVVDGETPVRVARSATGELVQ  
TEAEIVLPRDVTGPISFQLSRTGVRAAMIIEGKVYGVVTRPGPGERRVTNITEVAPSLGEAALSINW  
RPDGILLVGT SIPETPLWRVEQDGS AISSMPSGNLSAPVAVASSATTVYVTD SHAMLQLPTADNDIWR  
EVPGLLGTRAAPVVAY

>RXC00152 TRANSLATE of: RXC00152.seq check: 9915 from: 1 to: 1296  
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FPPQAVITQDNLTVADIVVTFQINEPERAIYGVNDYIVGVEQISVATLRDVGGMTEETLTSRDVIN  
RRLRGELDAATTKWGLRISRVELKAIDPPPSIQSMEKQMKADREKRATILTAEGQREADIKTAEGEKQ  
AKILQAEGEKHASILNAEAERQAMILRAEGERAARYLQAQGEARAIQKVNAIKSAKLTPEVLAYQYLE  
KLPKIAEGNASKMWVIPSQFSDSLEGFAKQFGAKDAEGVFRYEPNTVDEETRIANADNVEDWFSTESD  
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>RXC00164 TRANSLATE of: RXC00164.seq check: 2228 from: 1 to: 1689  
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FYVVSRISEKIIANLREDMVG TALGLPTHQVEDAGSGDLVSRSTDDVSELAAVTETVPILSSSLFTIA  
ATIIALFSLDWQFVLIPVVVAPVYYFASKHYLSKAPDRYAAERAAMAERARKVLEAIRGRATVRAYSME  
DAMHNQIDQASWSVVVKIRARTTMLILNMWMLFAEFLMLAVALVIGYKLVIDNALTIGAVTGAVLMI  
RLRGPMNMFMRLVDTIQSGYASLARIVGVVADPPIPVPSGVKAPQGKVELRNVFSFSYGDSWAVKDIDI  
TINSGETVALVGASGAGKTTVAALLAGLRVPDQGGQVLVDDFPVSHLSDRERIARLAMVSQEVHVFSGTL  
RQDLTLAKPDASDEELAHALGQVNALDWLESLPEGLD TVVGARGIQLEPVVAQQALALARVLLLNP AIVI  
MDEATAEAGSAGASALEEAADAVSKNRSALVVAHRLDQASRADQILVMDKGEVVESGTHQELLDHGGIY  
QRLWTAWSVGR

>RXC00416 TRANSLATE of: RXC00416.seq check: 8529 from: 1 to: 1650  
LASYLSPTALVVAVLAIPLSATRLYLDGISVDQGFRTQFLTRMADDIGLSDMNYIDMPTFYFAGWFWLG  
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MGIPAMLVLASRIAKGDKFALAGGIIYLGVSATFYTLFTGAIASAVAVCIVVAAIVQRSIKPLLWLAV  
LGGSIVIALISWGPYLLASINGAERSGDSATHYLPLEGTQFPVPFLASSVVGLLCLVGLIYLVVRFHN  
NEVRAMWVGIAVFYAWMGMSMAITLLGNTLLGFRLDTVLVLI FATAGVLGIADFRLASVYQLYPTQITE  
RTATHLTNLIVVLVLLGGLYYAQDLPPQKNARAILAYTDTDGYGERADLYPAGAARYYKDINDHLLDQG  
FEPSETVVLTDDELDFMSYYPYRGYQAF TSHYANPLGEFGNRNAFIEDLAIRSWDELADPQQFSDALNTS  
PWTIPEVFIFRGSIDDPDAGWKYDVAEDLYPNNPNVRFRGVYFNPESEFDQMWQTKQVGFPVVVTHNE

>RXC00540 TRANSLATE of: RXC00540.seq check: 3827 from: 1 to: 243  
VARVVVNVMKPAEILDPQQA VHRALGRIGVSGVSDVRQGRFELEVDDSVTEADLK KIAETLLANTVI  
EDFDVVGVEVAK

>RXC00552 TRANSLATE of: RXC00552.seq check: 471 from: 1 to: 936  
VATSKILLYYAFTPLSDPKAVQLWQRELCESLNLRGRILISTHGINGTVGGDIDDCKAYIKKTREYPGF  
NRMQFKWSEGGAE DFPKLSVKVRDEIVA FGAPELKVDENGVVGGVHLKPQQVNELVEARGDEVVFFD

GRNAMEAQIGKFKDAVVPDVETTHDFIAEIESGKYDDLKDKPVVITYCTGGIRCEILSSLMINRGFKEVY  
 QIDGGIVRYGEQFGNKGLWEGSLYVFDKRMHMEFGEDYKEVGHCIHCDTPTNKFHCLNEDDCRELVLV  
 CPDFCANVETRHCKRERCAIAADFAEQGIDPLVTS

>RXC00560 TRANSLATE of: RXC00560.seq check: 5757 from: 1 to: 375  
 MRIDPLETRQAVLAVKDWIEGEDVKKPGRAALAAATRLSVRLLAQHAPGNSVEVRVPPFVAVQCIEGP  
 KHTRGTTPPNVETDAKTWLR LAPGQTTFDAEFESGKISASGTRAKEIADWLPVVKL

>RXC00657 TRANSLATE of: RXC00657.seq check: 8495 from: 1 to: 903  
 MSTEDIVVAVDGS DASKQAVRWAANTANKRGIPLRLASSYTMPQFLYAEGMVPPQELFDDLQAEALEK  
 INEARDIAHEVAPEIKIGHTIAEGSPIDMLLEMSPDATMIVMGSRLGGLSGMVMGVS GAVVSHAKCP  
 VVVVREDSAVNEDSKYGPVVVGVDGSEVSQQATEYAF AEAEARGAELVAVHTWMDMQVQASLAGLAAQ  
 QQWDEVERQQT DMLIERLAPLVEKYPSTVVKIITRDRPVRLAEASENAQLLVVGS HGRGGFKGMLLG  
 STSRALLQSAPCPMMVVRPEKIKK

>RXC00733 TRANSLATE of: RXC00733.seq check: 1945 from: 1 to: 885  
 MSNTAGPRGRSHQADAAPNQKAQNFGPSAKRLFGILGHDRNTLIFVIFLAVLSVGLTVLGPWLLGKATN  
 VVFEGFLSKRMPAGASKEDIIAQLQAAGKHQASMMEDMNLVPGSGIDFEKLAMILGLVIGAYLIGSL  
 SLFQARMLNRIVQSAMHRLRMEVEEKIHRPLSYFDSIKRGDLLSRVTNDVDNIGQSLQQTLSQAITSL  
 LTVIGVLVMMFIIISPLLALVALVSIPVTIVVTVVVASRSQKLF AEQWKQTGILNARLEETYS GHAVVKV  
 FGHQKDVQEAFEEENQACV

>RXC00861 TRANSLATE of: RXC00861.seq check: 5631 from: 1 to: 426  
 MAPHKVMLITTGTQGEPMALSRMARREHRQITVRDGLIILSSSLVPGNEEAVFGVINMLAQIGATVV  
 TGRDAKVHTSGHGYSGELLFLYNAARPKNAMPVHGEWRHLRANKELAI STGVNRDNVVL AQNGVVVDMV  
 NGRA

>RXC00866 TRANSLATE of: RXC00866.seq check: 4209 from: 1 to: 966  
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 NAQGSQNRESGNNNRNRSNNRRGGRGRRGSGNANEGANNNSGNQNRQGGNRGNRGGGRRNVVKSMQGA  
 DLTQRLPEPPKAPANGLRIYALGGISEIGRNM TVFEYNNRLLIVDCGVLPSSGEPGVDLILPDFGPIE  
 DHLHRVDALVVTHGHEDHIGAI PWLLKLRNDIPILASRFTLALIAAKCKEHRQRPKLIEVNEQSNEDRG  
 PFNIRFWAVNHSIPDCLGLAIKTPAGLV IHTGDIKLDQTPPDGRPT

>RXC00874 TRANSLATE of: RXC00874.seq check: 2465 from: 1 to: 1089  
 MSIGQHIITERFYGAKSHTIDNVDIVLSRECGENTLAVVRINNALYQLLVNDDGKDVLDNHVEEVGASF  
 GAWTGSSAFPIGPFTPLGTEQSNSSFITADNKAIVKYFRKLESGQNPDELISKISSCPNIAPI LGFSS  
 AEISGANYTLVMAQQYVPGLDGWSHALTTTSGSFAEDA EKIGEATRNVTALASAFPTRVVPVEALADA  
 LTTRLNELISQAPEIARFKEAAIDLYQSLEGEAHIQRIHGDHLGQLIKTPERYILIDFE GEPARPLNQ  
 RRLPDSPLKDLAGIIRSIDYAAFYDGEHTQWANEATALFLDGYGSIEDQELLNAYILD KALYEVA YEIN  
 NRPDWVKIPLEAVERLLD

>RXC00930 TRANSLATE of: RXC00930.seq check: 5911 from: 1 to: 753  
 MSGHSHKWTATKHKKAANDAKRGKEFAKLIK NIEVAARTGGGDPSANPTLDDMIKKAKKASVPNDNIERA  
 RKRGSGEEAGGADWMNIMYEGYGPNGVAM LIECLTDNRNRAATEVRTAMTKNGGNLGESGSVS YMFTRT  
 GVVTVQKGDLS EDDVLMVLEAGAEVNDNGDLFEVTCAPTDIQAVRDALVEAGIEVEDSESDFRASVQ  
 VPLDADGARKIFKLVDAL EDSDDVQNVYTNIDLSDEVLT ELEN

>RXC00988 TRANSLATE of: RXC00988.seq check: 4588 from: 1 to: 423  
 MSKREESIEYGPLGKGHDPLKDP MKGIRGVMAGTLVMEAITLGLVLT VILRVDDGIYWTTFNWVYVSAV  
 AIAHFVAAFLQRFWSIPMNIVLQVLALAGFFVHPAMGF AAIIFIIAWAYLFYLRSLNIDRMKRGLLT  
 QHS

>RXC01021 TRANSLATE of: RXC01021.seq check: 6144 from: 1 to: 522  
 MSSSESSRSEGSQ PAPSVPERRADSTGAPAAASKEASQQMDAAGVLEWARTAVEQLSERRAEINALNV  
 FPVPDADTGSNMITYMTAALDEALKLGELGDVARITEALAVGSVRGARGNSGVVLSQVLRAIAQAAADG  
 VIDGHTIQEALS IARSLVDRAITDPVEGT VVTVLRS

>RXC01088 TRANSLATE of: RXC01088.seq check: 600 from: 1 to: 1182  
 MGLWIDATAGVAGDMLLGALIDAGAELEKIQQVVEA VIPGDVLLRTEEVVRQGGQGIKLHVDAQHEHHH  
 HRHLSTIKELLVNADIPEQTKQDALGV FELIAIAEGKVHGIEPEKIH FHEVGAWDSIADIVGVCEAIRQ

LNPLGLIAASPIALGFGRIKAAHGDIPVFPVPAVAELVKGWPTQTGALMESTEPVGELATPTGVALIRHFA  
TQDGPFPGGIINEVGIGAGTKDTEGRPNIVRAILFNTRSNDPDRTLVQLEANVDDQDPRLWPGVIEIL  
FAAGAVDAWLTPILMKKGRPAHRVSALVDSSEVEAVKTALFAATTTFGIRSWEVEREGLDRRFEQVEVD  
GHTINIKIGSRDDQVISAQSEFEDIRSAVALGISEREVVARIPQGTTE

>RXC01096 TRANSLATE of: RXC01096.seq check: 6566 from: 1 to: 447  
MKPRVLSALGIGAGALVWISSRMNWVTIEAFDDKSGSVTQSIVGATWSTEIMALALALLAAFAAALVL  
KRMGRRIIGGISALIAVGASLSPLALLTQDPDAERARTLLTSGVASQKANSGLTLLSDWAEIINTTTHPL  
AAVVAMIGCAL

>RXC01158 TRANSLATE of: RXC01158.seq check: 5695 from: 1 to: 942  
MSIVEHIKEFRRLLIAGILVGTIIGFIWYDFSWQIPTLGELLRDPYCSLPAESRWAMSDSEECRL  
LATGPFDPFMLRLKVAALVGMVLGSPVWLSQLWGFITPGLMKNNERYTAIFVTIAVVLVFGGAVLAYFV  
VAYGLEFLLTIGGDTQAAALTGDYFGLLALLAIFGVSEFVPLVIGMLNIVGILPYDAIKDKRRMIIM  
ILFVFAAFMTPGQDPFTMLVLALSITVLVELALQFCRFNDKRRDKRPEWLDGDDLSASPLDTSAGGED  
APSPVETPEAVEPSRMLNPSGEASISYKPGRADFGDVL

>RXC01191 TRANSLATE of: RXC01191.seq check: 2562 from: 1 to: 1590  
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ETAGRGDVISRIADDSREVSTAASVPLMVQAGFTVVISAFGMAAVDWRLGLVGLVAIPLYWTTLRVY  
LPRSGPLYTREREAFGVRTQRLVGAVEGAETLRAFRADTELKRIDAASGEARDISISVFRFLTWAFSR  
NNRAECITLVILGTGFYLVNIDLVTVGAVSTAALIFHRLFGPIGTLVGMFSDIQSASASLIRMVGVIN  
AASNQVSGTSPASASTALTLDVSHHYHTAPVIKNASVQLEPGEHIAIVGATGAGKSTLALIAAGLLSP  
TSGQVALGGSSFSNVEPEALRQKIAMVSQEIHCFRGSLDNLRIARPEATDADIHAVLADIGDSWLERL  
PQIDTIVGDGAFRLTSVENQIMALARVHLADLAILDEATAESGSDHAKQLEDAALKVTENRSAILV  
AHLNQAKTADRIIVMDSGEIIESGTHEELRAIGGRYEQLWTAWSAR

>RXC01207 TRANSLATE of: RXC01207.seq check: 2212 from: 1 to: 648  
VSRIYDCADQDSRAAGLKAADVAVKAGQLVVLPTDTLYGLGCDAFNNEAVANLLATKHRGPDMPVPVLV  
GSWDTIQGLVHSYSAQAKALVEAFWPGGLSIIVPQAPSLPWNLDTRGTVMRLMPLHPVAIELLRQTGP  
MAVSSANISGHTPPTTVLEARQQNLQNVAVYLDGGEALATPSTIVDISGPAPKILREGAISAERVGEV  
LGVSASLR

>RXC01434 TRANSLATE of: RXC01434.seq check: 1389 from: 1 to: 2952  
VLGAVLTSLVIPVLTRAEKEDADGGSGFFRRLLTSLVTLGGVTILSIIGAPLLTRMMLSSEGQVNVVM  
STAFAYWLLPQIFFYGLFALFMAVLNTRVFKPGAWAPVNNVITLTVLGVYMLVLPARLHPHEQVGIFD  
PQIIFLGVGTTGLVVAQCLIMIPYLRRAGIDMRPLWGIDARLKQFGGMAMAIIVYVAISQFGYIITTRI  
ASIADDAAPFIYQQHWMLLQVPYGIIGVTLTAIMPRLSRNAADGDDRAVVSDDLQLGSKLTFIALIPIV  
VFFTAFGVPPIANGLFAYGQFDANAANILGWTLFSFAFTLIPYALVLLHLRVFYAREEVWTPTFIAGIT  
ATKVVLSSLLAPLLSSSPERVVLLGAANGFSFITGAVIGAYLLRNKLGLLGMRLAKTSLWALGSAAVG  
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RFIRPNTKISLDVGEVSEQDFSTQLVAPSEFAATPVPPMSAGIVRGPRLVPGAPVGDGRFLLADHGG  
VQGARFVQAREIATGKEVALIFVDTSGNAPFAPLSSAAAAGIAYEVQRRTKKLASLGLAVAPNIHSEA  
YRNGCLIVADWVPGSSLSAVAESGADPRAAAFALAELETETIGEHEMGIPAGLDNKCRIINTDGHAVL  
ALPAILPDASELRDAKSLASAAEMLIDATLAPSDVKAMVTEAQGLATEDNPDYASLAMAMRTCCGLFTEE  
PTHLVVKKEKTPKPTRDGFASDYTVKGMMAIAAVVILVSLVAAGTAFLTSFFGSSTNEQSPLASVE  
ATTSATPEPVGPPVYLDLDQARTWDDGAGTDVTDVTDGNTSTAWTSTGGDGLLVLDLSTPARLDRVILT  
GTGSDSNVTSTVKIYAFNDASPHSLSEGIEIGTVDYSGRSLSHSIRDSSKLPQVESVVLVDEVRSQ  
TSDTNPQMQUIAEVQLVGW

>RXC01518 TRANSLATE of: RXC01518.seq check: 9224 from: 1 to: 474  
VAFMQKTSAGWLIATGGFLAAVSAILTWRFYGSMTSISITVSWITFWLLAVVCGFAGVKVQGRLEGLIG  
QDKSQMNPVTIAYLAMLGRACAWGGAIFGGVYVGIGSYVIPRAGELSAASNDLPGVACALGGIALSAA  
GLYLSRCEAPPPQSGEAS

>RXC01600 TRANSLATE of: RXC01600.seq check: 9748 from: 1 to: 669  
MVSKMHIPGTHEFTVDTELLLESPILGVRDLSLIMPGGSTARREVVEHFGAVAVVAFDGENIAMVKQY  
RRSVGDSLWELPAGLLDIADEDELTAQRELMEEGLEASWSVLTDLITSPGFCDEAVRVFLARGLTK  
VERPKVMGDEEADMINQWVPLHEAVGMVFSGQLVNSIAIAGVMAADAVIAGRASARAVTAPFTYRPTAL  
AQRRAHGIVPDMKKL

>RXC01622 TRANSLATE of: RXC01622.seq check: 2066 from: 1 to: 603  
MSDFYADRLFNAMEVAPGMLLVAAAPDMASEDFERSIVLIIHSPATTFGVNISSRSDVAVANVLPE  
WVDLTSPQALYIGGPLSQQAVVGLGVTKPGVDIENSTSFNKLANRLVHVDLRSAPEDVADDLEGMRFF  
AGYAEWAPGQLNEEIEQGDWVFTPALPSDIIAPGRVDIWDGDMRRQAMPLPLYSTFFSPDPSDN

>RXC01656 TRANSLATE of: RXC01656.seq check: 8741 from: 1 to: 897  
MTETQETYQATTRVKRGLADMLKGGVIMDVVTPAQARIAEDAGASAVMALERVADIRSQGGVARMSPD  
DLIEGIVNAVSI PVMAKARIGHFVEAQVLEALGVDFIDSEVLSPADYTHHINKWKFDVPFVCGATNLG  
EALRRITEGAAMIRSKGEAGTGDVSEAVRHLRTIRGDINRLRSLDEDELFAAKEFQAPYDLVREVAST  
GKLPVVTFFVAGGVATPADAALVRQMGAEGVFVGSGIFKSGNPAARAAAIVKAATLFDPPSVIADVSRGL  
GEAMVGINVS DVPAPHRLAERGW

>RXC01709 TRANSLATE of: RXC01709.seq check: 6991 from: 1 to: 432  
VFEQALGLTTLAQTAGAGAAGGLGFMAMALLSAGMRSGVDMILNETGGEKMLAQADLVITGEGRIDAQT  
LSGKAPTGI AKRARA KGI PVLA VCGQSL LGPAISNELFEDIYSFTDFESDINECIRNPLPILEGIGFNI  
AKHHLS

>RXC01711 TRANSLATE of: RXC01711.seq check: 1589 from: 1 to: 1158  
MLLMAHRFFVLAINGAVTDDFTTVYSALRRFVEGIPVYNEVYHFVDPHYLYNPGATLLLAPLGYITHFT  
LARWMFIAVNLLAIVLAFGLLTRL SGWALRSMVWPIAIALAMLTETVQNTLIFSNINGILLMLAIFLW  
CVVHKKSWLGGGLVIGLAILIKPMFLPLLEFLPLVKKQWGSILGILTPVIFNAVAWFLVPGASEYVTRTM  
PYLGETRDFANSSLPGLAIYFGMPTWMEITWFLIFGAMVGLAVLALLRFRNTEPYFWAATTTGVLLTG  
FFLSSSLGQMYSSMMIFPMIFTLGSRSVFHNWVAWVAAYFLLSPDTFTSQRLPDVARWMEFFSATVWG  
LLIVVTFVSALIWFIGDIRAKGTPSSPITDPTHDLERTA

>RXC01715 TRANSLATE of: RXC01715.seq check: 5867 from: 1 to: 696  
VSELDIKQLNKLQRYSQWAVFRAIPGALDDDRTEVTDQAAKFFADLEAGKVTVRGIYNASGLRADADY  
MIWWHAEEFEDIQKAFADFRRTTILGQVSEVFWIGNALHRPSEFNKAHLPSFIMGEEAKDWITVYPFVR  
SYDWYIMEPLKRSRILREHGQA AVEFPDVRANTVPAFALGDYEWVLA FEADELHRIVDLMHKMRYTEAR  
LHVREELPFISGQRVDIADLIKVL P

>RXC01796 TRANSLATE of: RXC01796.seq check: 303 from: 1 to: 774  
LLLGGNPAEIDQVLGGDQTQIESGESTGAGDFDHCQTGADANASDDCRLYYTSFSV NEMWQTLLPAQAG  
IEYTEPTLTFLFNSTQTGCGFASASTGPFYCPSDQDAYFDLTFFDQMRQFGAENAPLAQMYIVAHEYGH  
HVQNLEGTGLSNSYNNDPGADSNV KIELQADCYAGIWANHSSEGPDP LLPIT ESELDSALLAASAVGD  
DNIQQRSGGDVNPESWTHGSSQQRKDAFLAGYNTGQMSACDFLGRGVYNDA

>RXC01942 TRANSLATE of: RXC01942.seq check: 8026 from: 1 to: 600  
MLRIGLTGGIGSGKSTVADLLSSEGLIVDADQVARDIVEPGQPALAEAEAFQDILKPDGTLDRAGL  
AAKAFVSEEQTALLNAITHPRIAEESARRFNEAEDQGA KVAVYDMPLLVEKGLDRKMDLVVVVDV DVEE  
RVRR LVEKRLTEDDVRRIASQVPDDVRLKAADIVDNNGTLEDLHAEASKLIAEILSRVN

>RXC01946 TRANSLATE of: RXC01946.seq check: 7246 from: 1 to: 1275  
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TTLLLD EPTNHL DADSITWLRDFLAKHEGGLIMISHDVELLGAVCNKIWYLD AVRSEADVNMGFSKYV  
DARALDEARRRRERANA EKKAGALKDQAARLGAKATKAAAQMIARAERMIDNLDEIRVADRAANIVF  
PEPAPCGKTP LNAKGLTKMYGSLEV FAGVDLAIDKGSRVVVLGFNGAGKTTLLKLLAGVERTDGE GGI  
TGYGLKIGYFAQEHDTIDPKSVWQNTIEACADADQQSLRSLLSGFSMFSGEQLDQ PAGT LSGGEKTRLA  
LATLVSSRANVLLLDEPTNNLDPI SREQVLDALRTYTGA VVLVTHDPGAVKALEPERVIVLPDGTEDLW  
NDQYMEIVELA

>RXC02080 TRANSLATE of: RXC02080.seq check: 2711 from: 1 to: 807  
MSIEWLQIVELGAIFGAGFLAG SINVIVGAGTLVSFPILVFLGLPPLTATIAN TIGIVPGSISGVVAYR  
RELHAHVKTIRFLLPASILGGITGASLLHFSADVFTAVIPWLIGFGTLLVIAGPSIKKHVGAHTSGGI  
SAGFRQLPFPSRTTFIVSVCGALLGMYGGYFSAAQGILLIALLGITSTLQMQLNAIKNLTVA AVNLI  
AASVFIIISP ELISWPTVALIALGSALGGYIGGRYARRLRPSVFRFVIVGITTIVIMTIG

>RXC02095 TRANSLATE of: RXC02095.seq check: 6468 from: 1 to: 1404  
MKTEQSQAQLAPKKAPEKPQIRQLISVAWQRPWLTSFTVISALAAATLFELTLP LLTGGAIDIALGNT  
GDTLT TDLDRFTPSGLSVLTSVIALIVLLALLRYASQFGRRYTAGKLSMGVQHDVRLKTM RSLQNLGD  
PGQDSIRTGQVVSRISDINMVQSLVAMLPMLIGNVVKLVLT LVI MLAISPLTI IAAVLVPLLWAVA



YSRKALFASTWSAQQAADLTTHVEETVTGIRVVKAFQAQEDRETDKLDLTARELFAQRMRTARLTAKFI  
PMVEQLPQLALVVNIVGGGYLAMTGHITVGTFFAFSSYLTSLSAVARSLSGMLMRVQLALSSVERIFEV  
IDLQPERTDPAHPLSLPDTPLGLSFNNVDFRGILNGFELGVQAGETVVLVGPPGSGKTMVQLAGNFYQ  
PDSGHIAFDSNGHRTFRDDLTHSDIRRNLIASFDEPFYSSSI PREHL DGGFCQ

>RXC02206 TRANSLATE of: RXC02206.seq check: 8771 from: 1 to: 936  
MVGSSGLRVSRLLGLTSTWGSGETELAEAGDIFKAFINSGGTLIDVSPNYTTGVAEEMLGTM L DAEVSR  
AVVISSAGVNPALPLGRRVDCSRRLIAQLDVTLRALNTDYL DLWSVGWDEGTPPHEVADTLDYAVR  
TGRVRYAGVRGYSWQLAVTHAASNHAAASARPVVVAQNEYSLLERRAEQELLPATQHLGVGFFAGAPL  
GQGVLTAKYRSEIPHDSRAASTGRDAEVQSYLDNRGRIIVDALDTAAKGLGISPAVTATTWVRDRPGVT  
AVIVGARTHEQLSHLLKAESVTLPTPITQALDDVSL

>RXC02207 TRANSLATE of: RXC02207.seq check: 6831 from: 1 to: 798  
MRRRSRVSRLLPATALLASTALLSACTQGVTDSPDMGKATPAVSPAASNPDGQVIEFGNITDMEVTDG  
DILGVRTEDALAIGTVSDFEAGSQVELDVQKCGDLTATGGTFVLPCADGVYLIDAKDPDLDEL RATDK  
PVTVAALTSDDQLLVNGEDEELTIYREGEEPETFTVAGPNTQLIAVPVIDRHDVVRTWNENTTIQDV  
DYPNDREGATLRVGLGVGMAGGEDGLLVVSDMGGQIAIYNADDVIRLQNDRPHRRGT

>RXC02238 TRANSLATE of: RXC02238.seq check: 4471 from: 1 to: 285  
VTNVSNETNATKAVFDPVPGITAPPIDELLDKVT SKYALVIFAARARQINSFYHQADEGVFEFIGPLV  
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>RXC02295 TRANSLATE of: RXC02295.seq check: 491 from: 1 to: 780  
MGLELAASGWGILIAGAAVAGWIDAVIGGGGLVLIPLILAVMPQLAPVTALASNKLAAVTGTASAAFTL  
VRRVKPDKLLALYVLVAVCSGAGALAASLIDKQIMRPLIIVLMLVVGLIVVFKPNFGTGESKALPTG  
WKRWAAI VAVGLIAAYDGI FGP GTGMFLIMAF TALLSQNFLSSAAMAKVVNTATNLGALIVFIIGGHMW  
WTLGLVLAVANVAGAQLGARTVLGGGTRLIRYALLTLVVMSVYLTWQQIQGM

>RXC02380 TRANSLATE of: RXC02380.seq check: 4082 from: 1 to: 654  
MTTIVKRRARIGIMGGTFDPIHNGHLVAGSEVADRFDL DLVVYVPTGQPWQKANKKVSPAEDRYLMTVI  
ATASNPRFMVSRVDIDRGGDTYTIDTLQDLSKQYPDAQLYFITGADALAQIVTWRDWEKTFELAHFVG  
TRPGYELDGNIIPEMHQDRVSLVDIPAMAISSDTCRERSSEERP V WYLVDPDGVVQYIAKRQLYRPEGSD  
KMDMPKGQNQA

>RXC02390 TRANSLATE of: RXC02390.seq check: 7081 from: 1 to: 669  
VEWTAFGTLILLNLVGLSLSPGPDFTFFLLRLATRSRAHAIAGVAGIVTGLTVVWTLTVVGAAALLTTPS  
ILGIIQLVGGTYLSFIGYKLLRSASRELIDARQFRFNADARPIPDAVEALGTRTQVYRQGLATNLSNPK  
VVMYFAAILAPLMPAHPSVPLAFSIIIVAILVQTFVTFSAVCLIVSTERVRKAMLRAGPWFDLLAGVVFL  
VVGVTLLYEGLTGLLG

>RXC02498 TRANSLATE of: RXC02498.seq check: 7283 from: 1 to: 804  
MSEEKLTVAELMARAAKEGRSTDAPRRRRRRRSIEDGGVSAELTGSI PAVKEKPAESKHSSVPIDAPAE  
PEVVEAPKPEPAEEVEVASVEGDVDKQETPERPAPSNEETMVLRIVDEKDPISLTGAFVVPVAAKAP  
APVVRAEKDADVETAVKADFAEVEVDNTDTTQMAVVEEVDEEPEQENKMSVF AIIMMAIVGVVLGVVFL  
LGFEMLWERLNKWIVAVLAVGVTLGMVGIIHALRTSRDGFMSVLAGIVGLVMTFGPLAIVM

>RXC02624 TRANSLATE of: RXC02624.seq check: 3015 from: 1 to: 1296  
VLI PHGVAVLLVII LAVASLMFTNSSMVNLSATIAQLWLSLNLGAVDGSGEVISVLP TLP GFIFLWAI A  
ARIHRAVKDRVSIADLGVLAALVLGIPLALTAIAAFMLFDASSVLNVEVPPITRLLRVMLFHL SALFLG  
MGPRWLQALARRYGAPEWLIDAITQAFRLIAFGTVSLVSVLVMTAINHSAFTATMQGYDD SASVVALI  
VLSILYLPNMIFAMGNLIGSPLYFGDASISVFSVHSVPLPLPILAALPSEALS WAVALLVIPAI IAT  
WVCVRNPMRLAVNTTAAVISALCFLVLAVFAGGT LGVYNYVGLNLLASVGLVFVYFALVGLLIAGIDKL  
RNPVEVKSVKAVAVVEPEPEEEVEEHEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEEVEE  
ETETEAEETNDGSEAEDR

>RXC02665 TRANSLATE of: RXC02665.seq check: 7387 from: 1 to: 480  
VTNPIIPRVGIATDAHQIEAGKPCWIACLLFEGVDGCEGHS DGDVVAHAIVDALLSASGLDGLGSFVG  
GRPEYDGVSGTQLLKEVRELLSAHG YVIGNVAAQLVGQTPKFGPRREEAQQVISEIIGAPCSLSATTTD  
HMGFTGRSEGRASVATAVVWKA

>RXC02770 TRANSLATE of: RXC02770.seq check: 2969 from: 1 to: 1566

MLVAALVMTSCGDGEPEPTSHQTSLFGYAVNSSLATTTNAASLLGVANDAGLLAARVYPGVYVQGPSGQM  
IPNTDLASTQVLPGINRQVIYTTINEDATYSDGQPVVCDDFLLSATAGQMPQLFQSHVPLTSQIERVDCV  
SGSKVATVVFKEIDLGERWRYLFEQGDLLPAHAVASKAGMTLEELNQALKDKDPEALTEPARVWSEGFQL  
SQFDPQLQTAFGPYKVDSVGEFGEVKLVNEFYSGDQAVEAEITMWPKGSDLSAIADNGNLQIAHVVAW  
ESEPWNRRDDPLNPYDIKEEVGVLTEQLTLASAGVFYAAEARQAFACVDQEAFAASSSISGIDVPAV  
GVHSVRHQNPVVHQIGDLPAQHMAVDINAASALAGQSIRIGYDGPDERKAAMVEAIRQSCEPAGITVID  
ASQEAVALNDLSRTEVSEWGYEQYFEGTLDVLRTPHREYENANTIGTDAESTRRTEEQLWAEVPSI  
PLAAQPRVFVIDRTVGNVVVNTDLAGIGWNMDRWSRSEE

>RXC02789 TRANSLATE of: RXC02789.seq check: 8247 from: 1 to: 546  
MKVSADTPGHDDPGPGRRLGLDVGTVRIGVAASDRDAKLAMPVETVPRETGFKGPDLDIDRLVAIVEE  
YNAVEVIVGLPTDLQNGSASVKHAKIEAFRRRLTNAGKNIPVRLGDERLTTVVATQALRASGVSEK  
AGRKVIDQAAAVEILQTLWDARTRALEPQSTDTQDFDEKGNFPG

>RXC02921 TRANSLATE of: RXC02921.seq check: 4157 from: 1 to: 471  
VSALEESIRIATIAAKAADEKKADDIAVIDVSDMIAITDCFVVASADNERQVGAIVEEIEDEMCKAGFE  
PKRREGNRENWVLLDYGLVVIHVQRQAEREFYGLDRLYRDCPLIEIEGLETFKRESSWSDEADIRNID  
SIDELPPLPAEYEPGYEDD

>RXC03185 TRANSLATE of: RXC03185.seq check: 4886 from: 1 to: 189  
MNDLAAEGENDPYRMVQQLRRKLSRFVEQKWKRPVIMPTVIPMTAETHIGDDEVSRASRESL